ORDER NO. KM49409871C1
F1

Service Manual

and Technical Guide

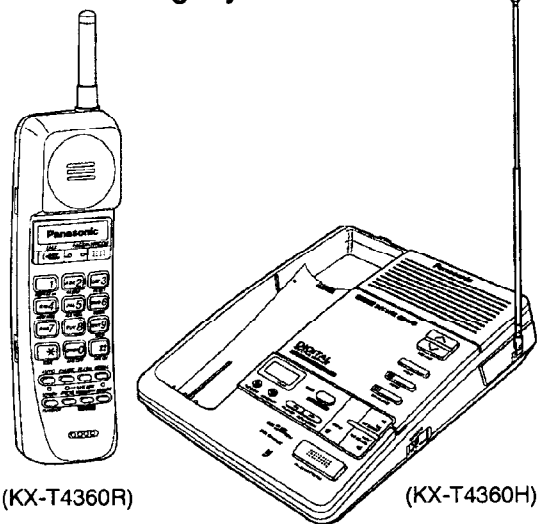
SOUND CHARGER PLUS

Cordless Phone with Answering System

Telephone Equipment

KX-T4360

(for U.S.A.)



(KX-T4360R) (KX-T4360H)

■ SPECIFICATIONS

General

Modulation:	FM, 5 kHz Deviation
Frequency Stability:	±2.5 kHz
Dial Type:	Tone (DTMF)/Pulse
Redial:	Last dialed number each time the Redial button is pressed
Pause:	3.5 seconds per pause
Memory Capacity:	10 telephone numbers, up to 16 digits per station

Tape Deck Section:

Greeting Message:	Recorded a microchip. Recording Time is 16 seconds.
Incoming Message (ICM):	Single Micro Cassette (MC-30)
Tape Speed:	2.4 cm/s
Wow and Flutter:	0.58 % (WRMS)
Motor:	Electrical governor motor

	Base Unit (KX-T4360H)	Portable Handset (KX-T4360R)
Power Source:	AC adaptor KX-A11-5 (DC 12 V)	Built-in rechargeable Ni-Cd battery (KX-A36A)
(Receiver Section)		
Receiving Frequency:	10 channels within 49.6 to 49.9 MHz	10 channels within 46.6 to 46.9 MHz
Adjacent Channel Rejection:	40 dB	40 dB
Sensitivity:	1dBμV for 20 dB S/N	2 dBμV for 20 dB S/N
(Transmitter Section)		
Transmitting Frequency:	10 channels within 46.6 to 46.9 MHz	10 channels within 49.6 to 49.9 MHz
Jacks:	DC IN, Telephone line	
Antenna:	Telescopic	Retractable Rubber Flexible
Speaker:	2" (5 cm) PM dynamic	1.2" (3 cm) dynamic
Microphone:	Condenser microphone	Condenser microphone
Dimensions (H×W×D):	$2^{17}/_{32}$"×$7^{3}/_{32}$"×9" (64×180×229 mm)	$11^{13}/_{32}$"×$2^{11}/_{32}$"×$2^{1}/_{16}$" (290×60×52 mm)
Weight:	1.76 lbs. (800 g)	0.57 lbs. (257 g) with battery

Design and specifications are subject to change without notice.

Panasonic

RF SPECIFICATION

BASE UNIT (KX-T4360H)

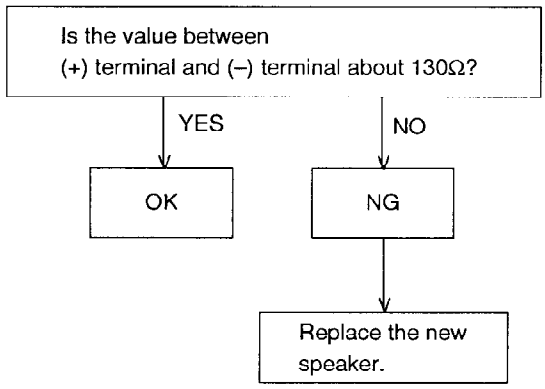
Item	Value	Refer to —.	Remarks
TX Frequency	46.970 MHz± 300Hz	Page 13 (C)	at CH10
TX Power	250 mV± 50mV	Page 13 (D)	
TX Modulation factor	2.0 kHz~3.0 kHz	———	
TX Modulation Distortion	Less than 8%	———	
TX Max. Modulation factor	4.0 kHz~7.5 kHz	———	
Date Modulation factor	4.0 kHz~7.0 kHz	———	

PORTABLE HANDSET (KX-T4360R)

Item	Value	Refer to —.	Remarks
Practical Sensitivity	Less than 9 dBμV	———	at CH5
Carrier Sensitivity	Less than 18 dBμV	Page 27 (C)	Test Mode Standby H→L at CH5
TX Frequency	46.970 MHz± 200Hz	Page 26 (D)	at CH10
TX Output	250 mV~450 mV	Page 26 (D)	at CH10 (Antenna soldering point 50Ω Load)
Data Modulation factor	5.5 kHz/dev~8.0 kHz/dev	Page 27 (H)	at CH10
MIC Modulation factor	2.4 kHz/dev~3.6 kHz/dev	———	at CH10 (MIC terminal -40dBm Input)

HOW TO CHECK THE PORTABLE HANDSET SPEAKER

1. Prepare the digitial voltmeter, and set the selector knob to ohm meter.
2. Put the probes at the speaker terminals as shown in Fig.13
3.



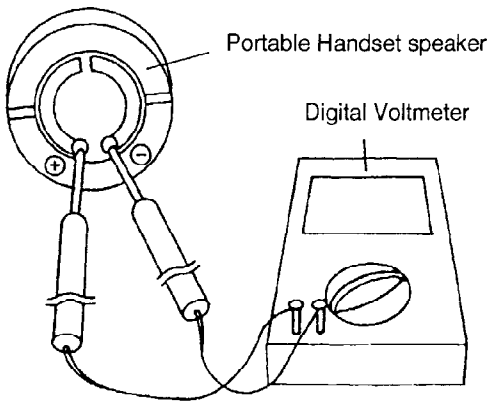


Fig. 13

ADJUSTMENTS (KX-T4360H)

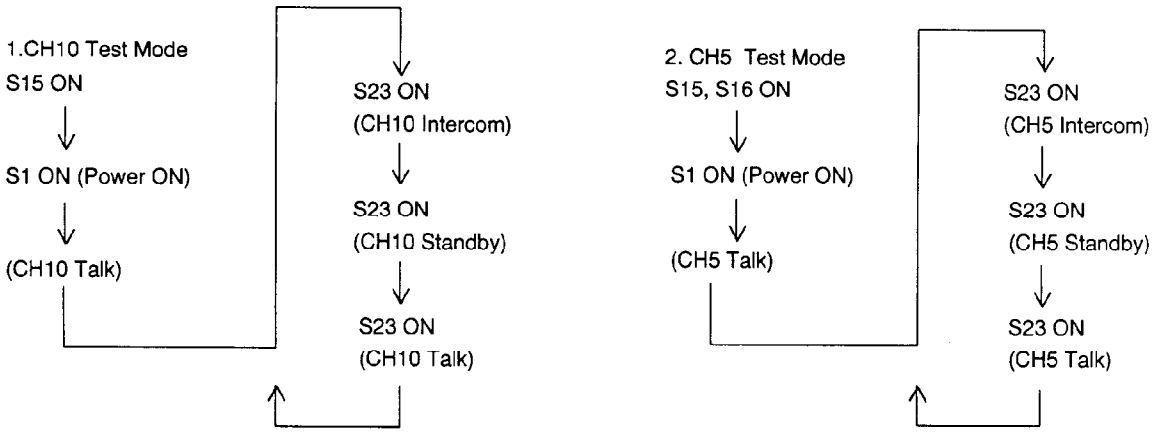
If your unit have below symptom, adjust for each item following table of adjustment.

Symptom	Remedy
The base unit dose not receive a call from portable handset.	Adjust the adjustment item(A)
The base unit dose not transmit, and the transmit frequency is wrong.	Adjust the adjustment item(B)
The transmit frequency is wrong.	Adjust the adjustment item(C)
The transmit output is low, and the range is shorted between base unit and portable handset.	Adjust the adjustment item(D)
The reception sensitivity of base unit is wrong, the noise is can be heard.	Adjust the adjustment item(E)

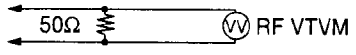
Unit condition:

Remove the antenna from P.C Board of the base unit.

How to set the test mode:



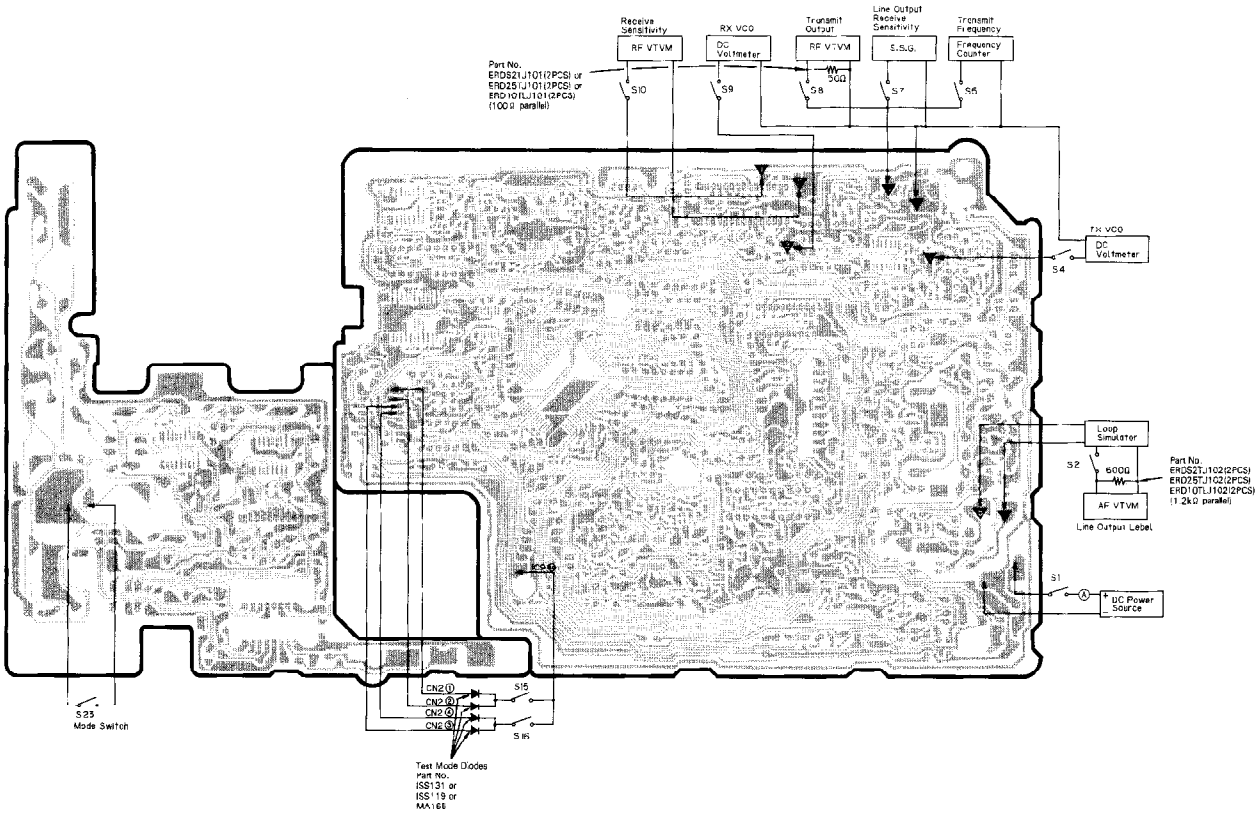
When replacing these parts, adjust as shown below table.

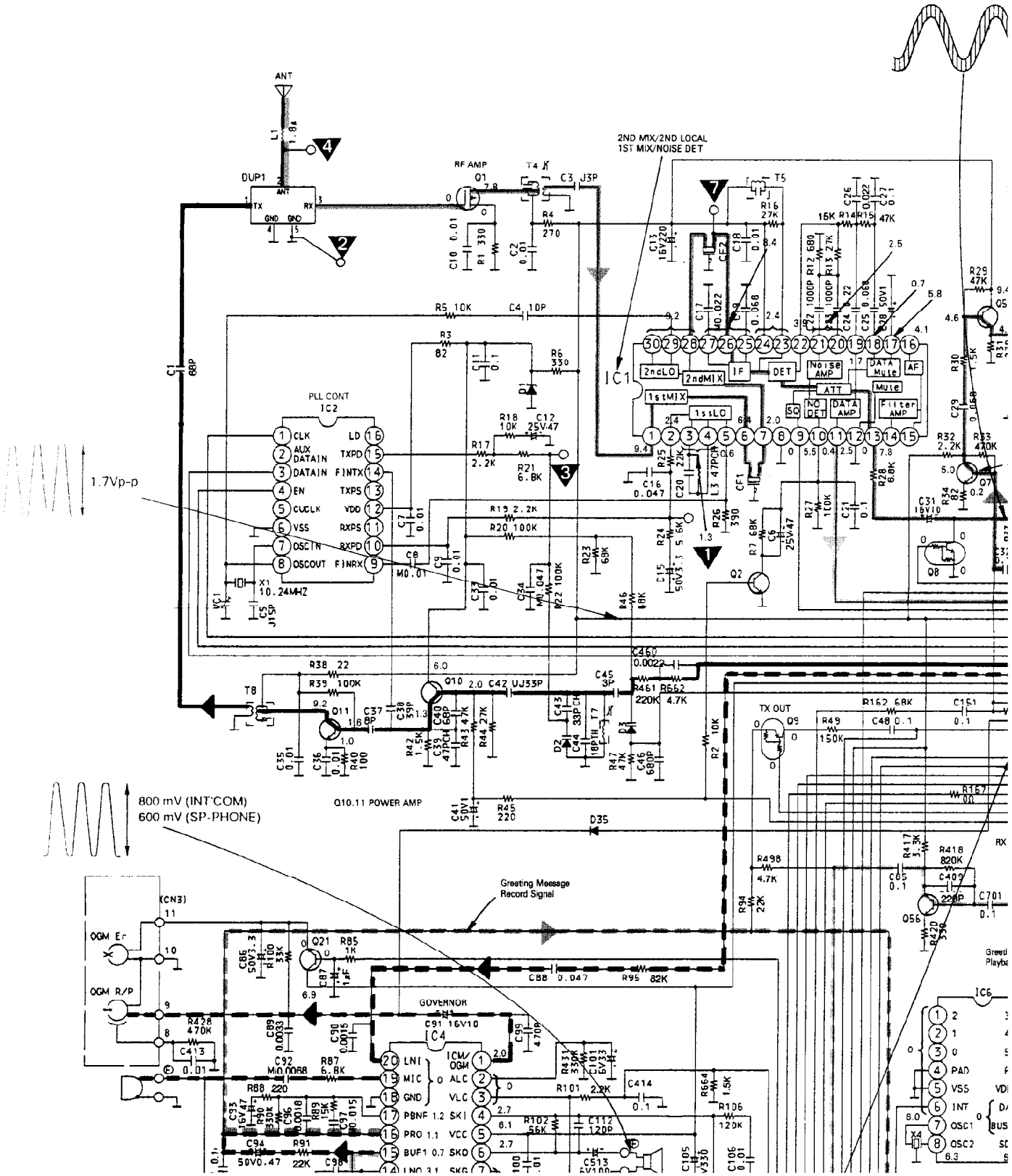
Replace Parts	Adjustment items	Test Mode	Adjustment Point	Procedure
IC1, L3	(A) Phase Detector Voltage Adjustment (RX)	CH10 Talk	L3	1. Set S9 to ON. 2. Adjust L3(counterclockwise) so that the reading of the Digital Voltmeter is 3.2V±0.2 V.
D3 ,D5, T7	(B) Phase Detector Voltage Adjustment (TX)	CH10 Talk	T7	1. Set S4 to ON. 2. Adjust T7(counterclockwise)so that the reading of the Digital Voltmeter is 3.2 V±0.2 V.
DUP1, T8, VC1, X1	(C) Frequency Adjustment (TX)	CH10 Talk	VC1	1. Set S5 to ON. 2. Adjust VC1 so that the reading of the frequency counter is 46.970 MHz±300 Hz.
T8, Q11	(D) Power Adjustment (TX)	CH10 Talk	T8	1. Set S8 to ON.  2. Adjust T8(clockwise) so that the reading of the RF VTVM is 95 mV±10 mV.

When replacing these parts, adjust as shown below table.

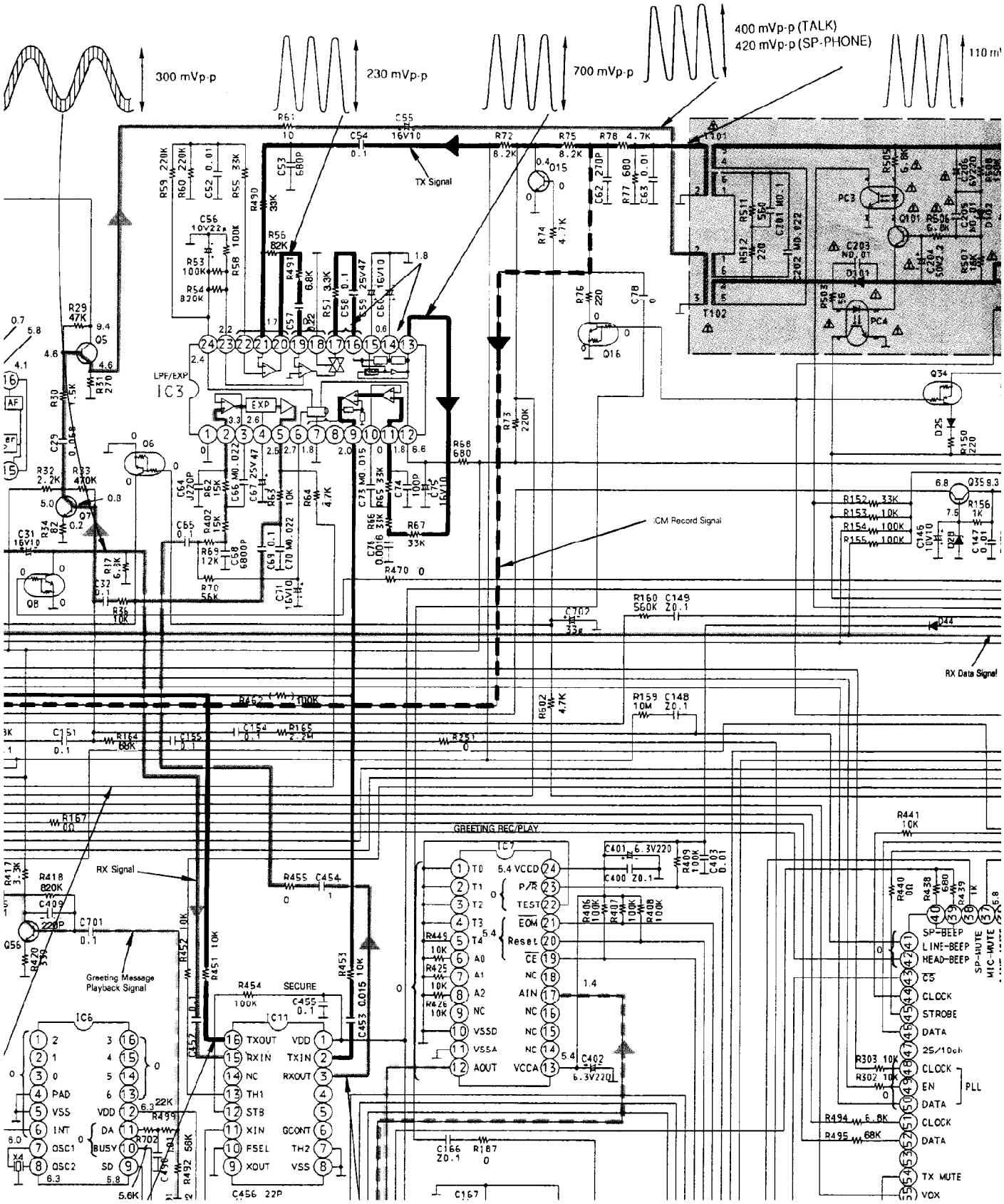
Replace Parts	Adjustment items	Test Mode	Adjustment Point	Procedure
T5, T4	(E) RF Adjustment (RX)	CH5 Talk		1. Set S2, S7, S10, to ON. 2. Apply a 40 dBμV output from S.S.G. (modulation frequency 1 kHz, dev. 3kHz). 3. Apply a DC 48 V from loop simulator.
			T5	4. Adjust T5 so that the reading of the AF VTVM is maximum output.
			T4	5. Apply a 40 dBμV output from S.S.G. (unmodulation), and adjust T4 so that reading of the RF VTVM is maxmum output.

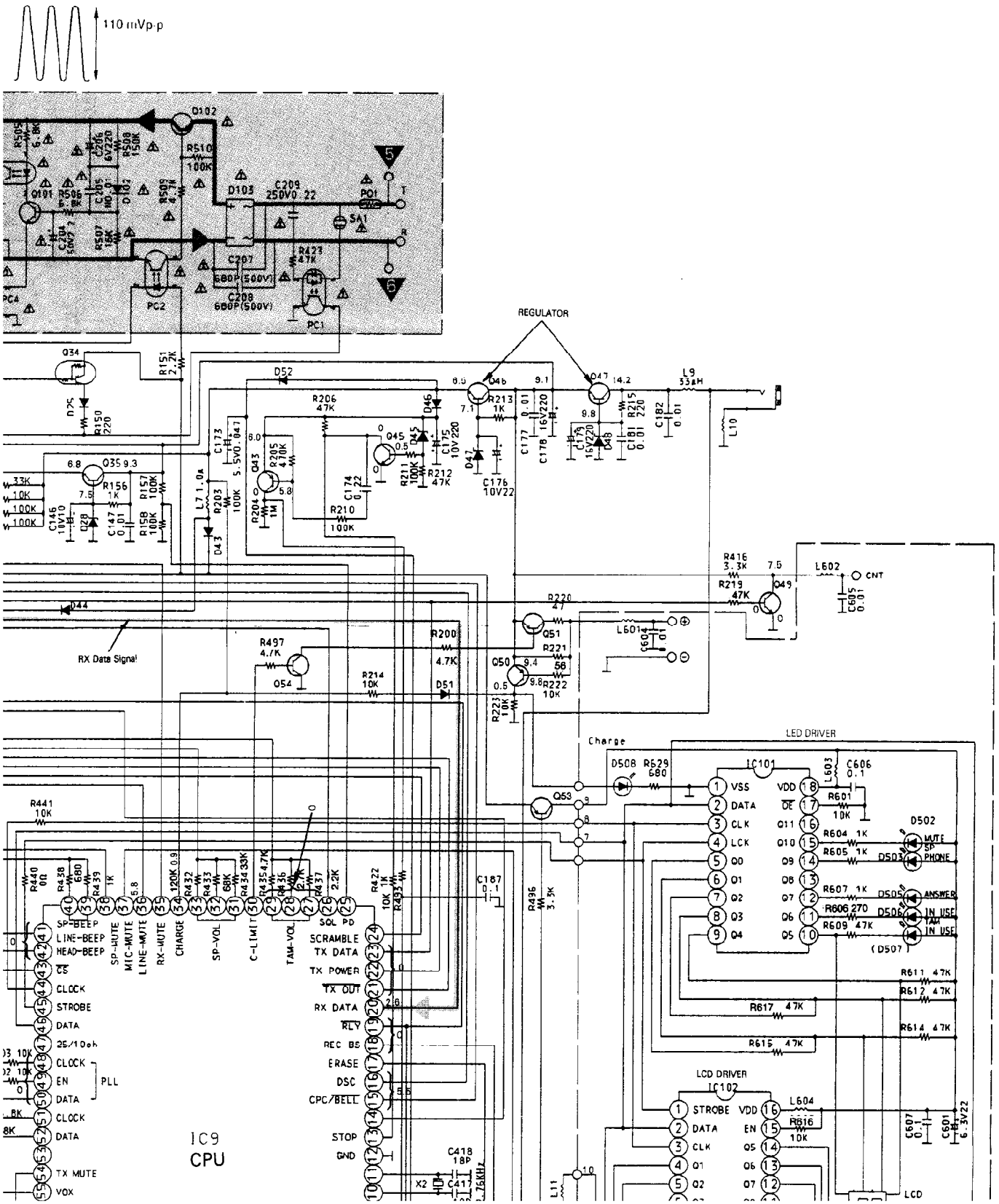
Flow Solder Side view

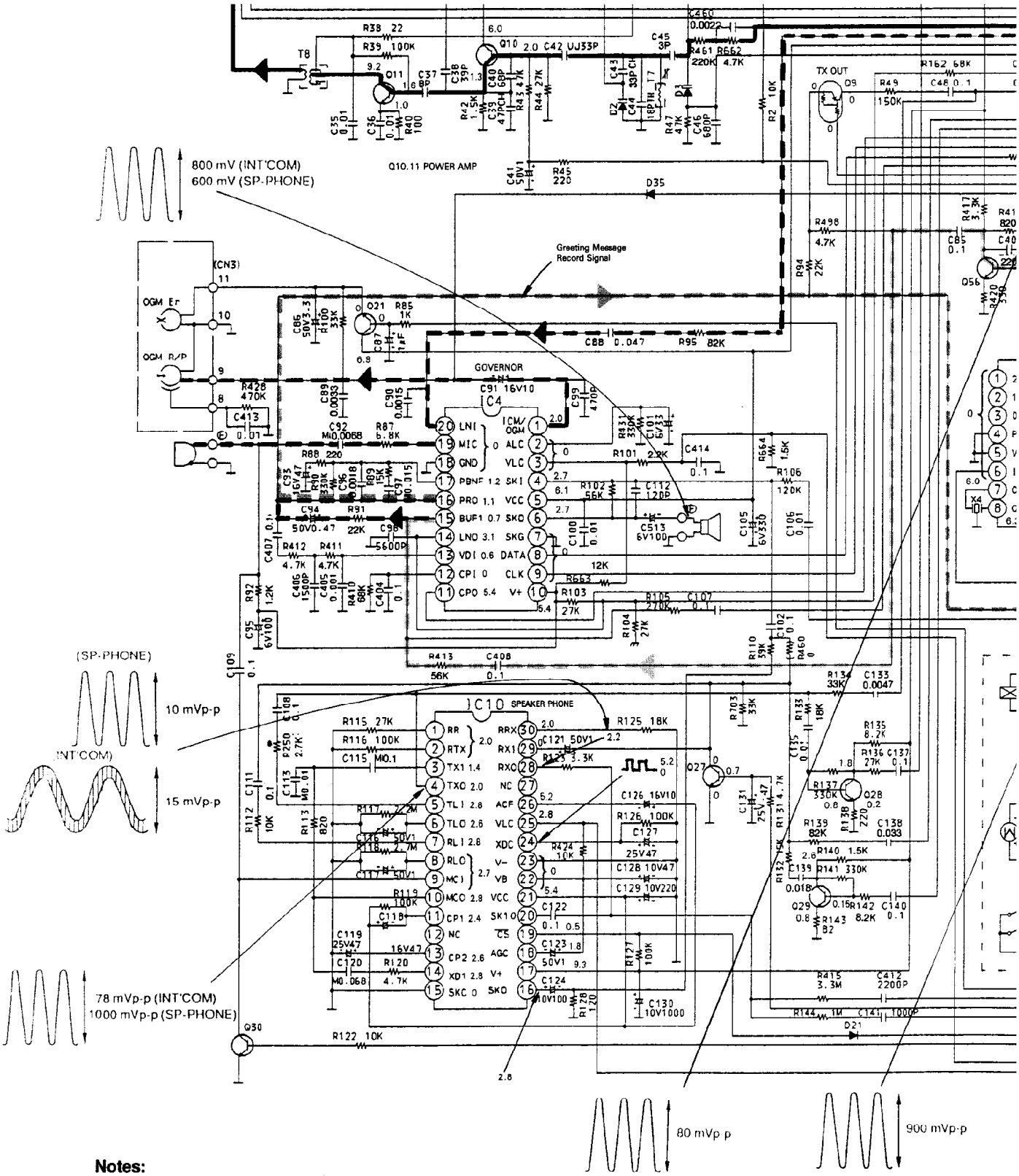



ANT
DUP1
RF AMP
2ND MIX/2ND LOCAL
1ST MIX/NOISE DET
IC1
IC2
PLL CONT
1.7Vp-p
800 mV (INT'COM)
600 mV (SP-PHONE)
Q10.11 POWER AMP
TX OUT
Greeting Message
Record Signal
GOVERNOR
OGM Er
OGM R/P
2ndLO
2ndMIX
1stMIX
1stLO
Noise AMP
DATA Mute
Filter AMP
10.24MHZ

SCHEMATIC DIAGRAM (KX-T4360H)

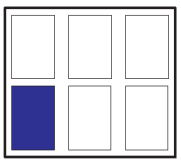


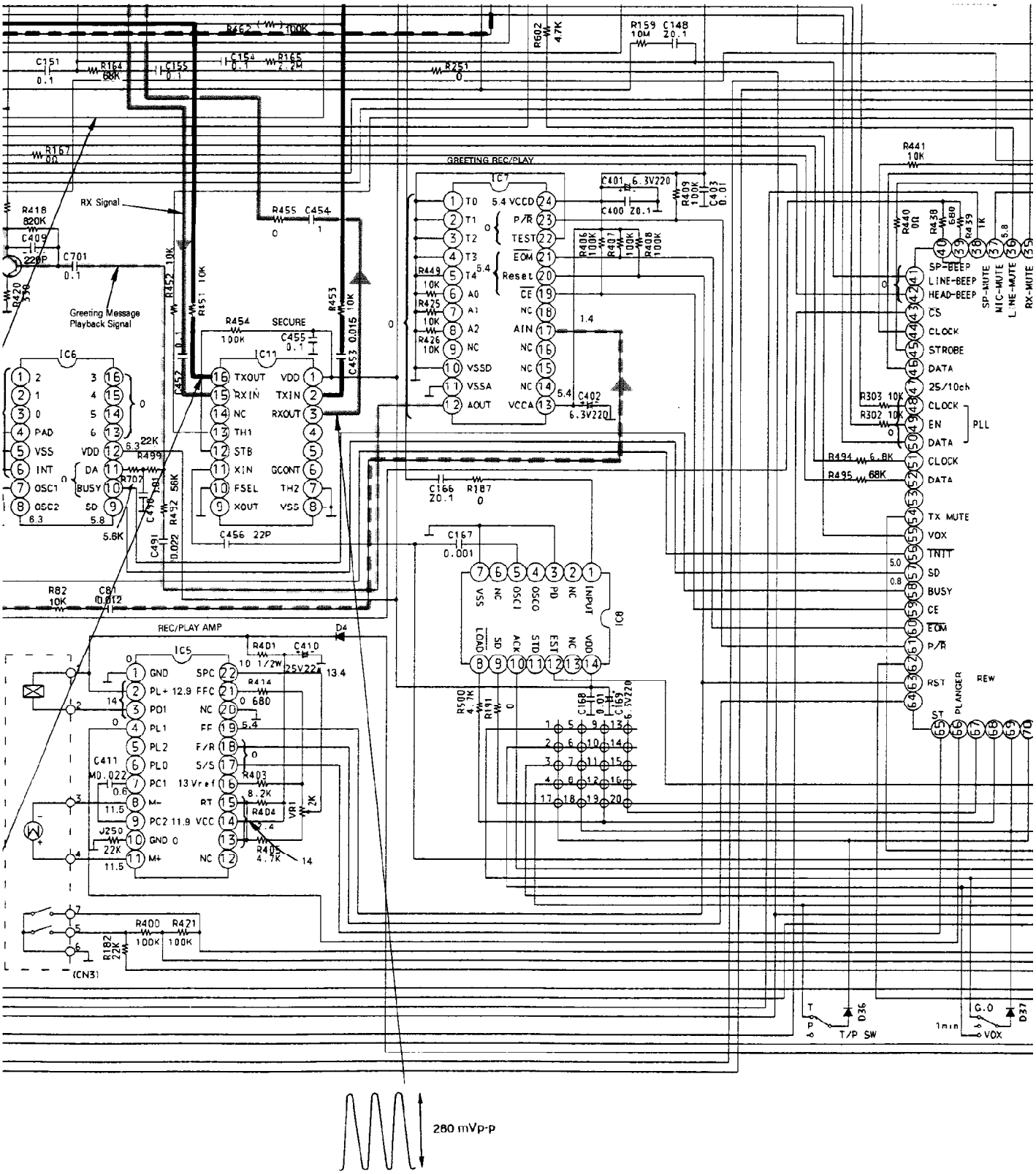

110 mVp-p
REGULATOR
RX Data Signal
IC9
CPU
LED DRIVER
LCD DRIVER
Charge
SP-BEEP
LINE-BEEP
HEAD-BEEP
CS
CLOCK
STROBE
DATA
CLOCK
EN
DATA
PLL
CLOCK
DATA
TX MUTE
VOX
SCRAMBLE
TX DATA
TX POWER
TX OUT
RX DATA
RLY
REC BS
ERASE
DSC
CPC/BELL
STOP
GND
SQL PD
SP-MUTE
MIC-MUTE
LINE-MUTE
RX-MUTE
CHARGE
SP-VOL
C-LIMIT
TAM-VOL
VSS
DATA
CLK
LCK
Q0
Q1
Q2
Q3
Q4
Q5
Q6
Q7
Q8
Q9
Q10
Q11
VDD
OE
MUTE
PHONE
ANSWER
IN USE
TAM
IN USE
STROBE
DATA
CLK
EN
LCD
CNT



Notes:

1. S1: Dialing Mode Selector Switch
2. S2: Ringer Selector Switch
3. S3: Recording Time Selector Switch
4. S101: Reed Switch
5. S102: Position Switch
6. S601: Volume (Up) Selector Switch
7. S602: Volume (Down) Selector Switch
8. S603: Hold Switch
9. S604: Mute Switch
10. S605: Greeting Record switch
11. S606: Greeting Check Switch
12. S607: ICM Erase Switch
13. S608: Speakerphone Switch
14. S609: Answer On Switch
15. S610: All Message Switch
16. S611: Stop Switch
17. S612: Time Check Switch
18. S613: Memo/2Way Switch

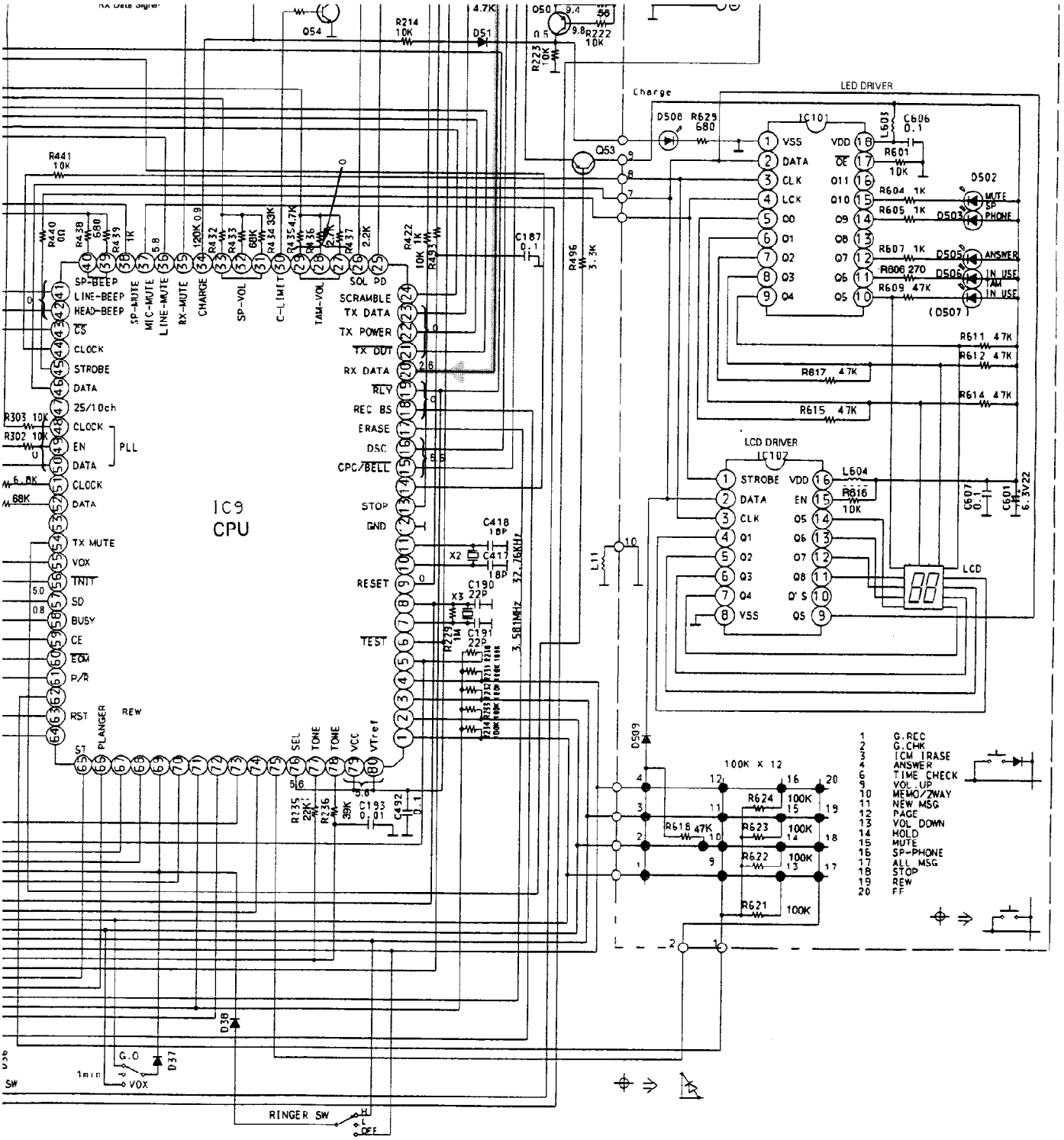




19. S614: FF/Skip Switch
20. S615: Rew/Repeat Switch
21. S616: New Message Switch
22. S617: Pae/Intercom Switch
23. DC voltage mesurements are taken with voltmeter from the negative voltage line.

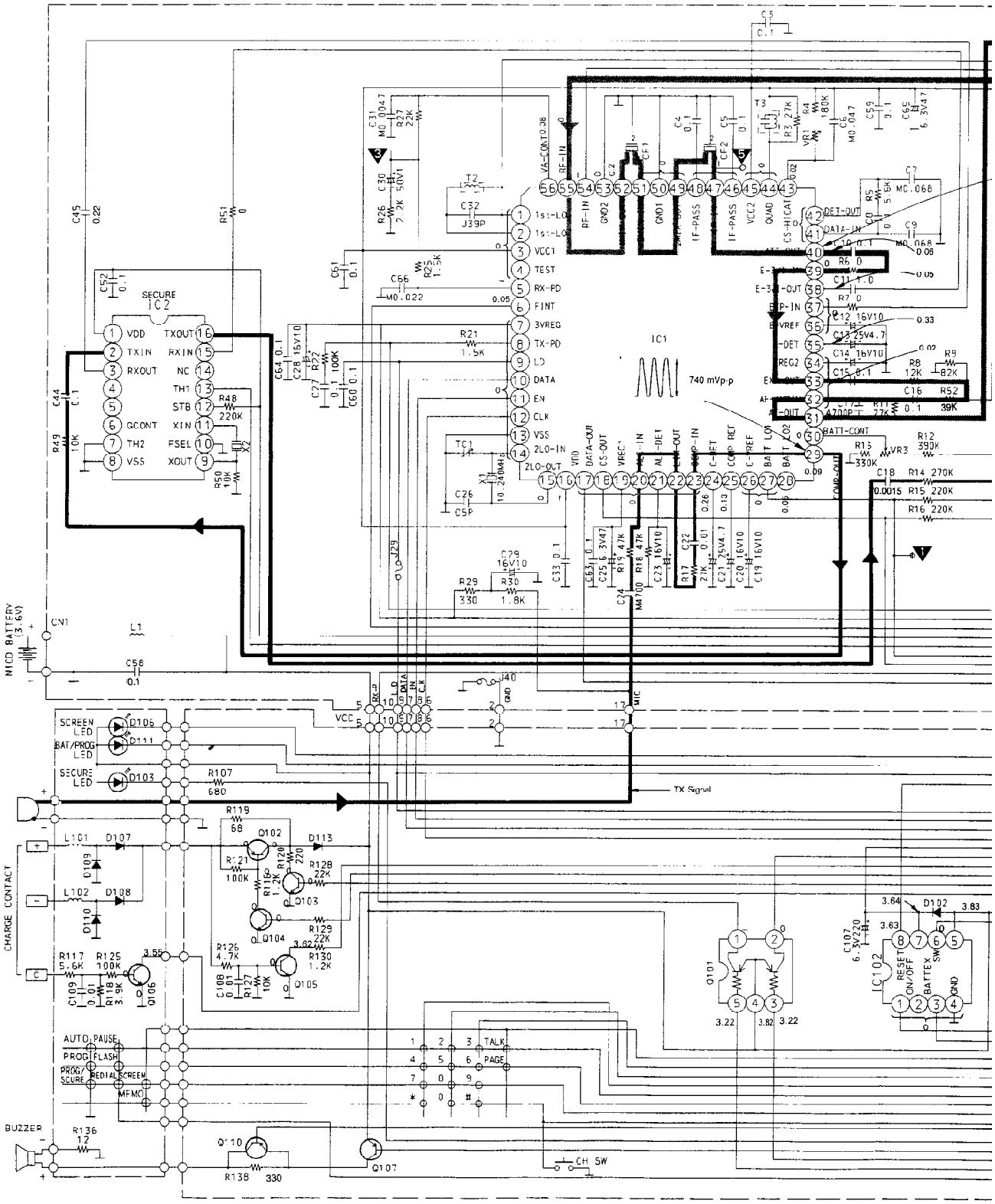
Important Safety Notice
The shaded area on this schematic diagram incorporates special features important for protection from fire and electrical shock hazards.
When servicing, it is essential that only manufacturer's specified parts be used for the critical components in the shaded areas of the schematic.

This schematic diagram m at any time with developm tecnology.



This schematic diagram may be modified at any time with development of new technology.

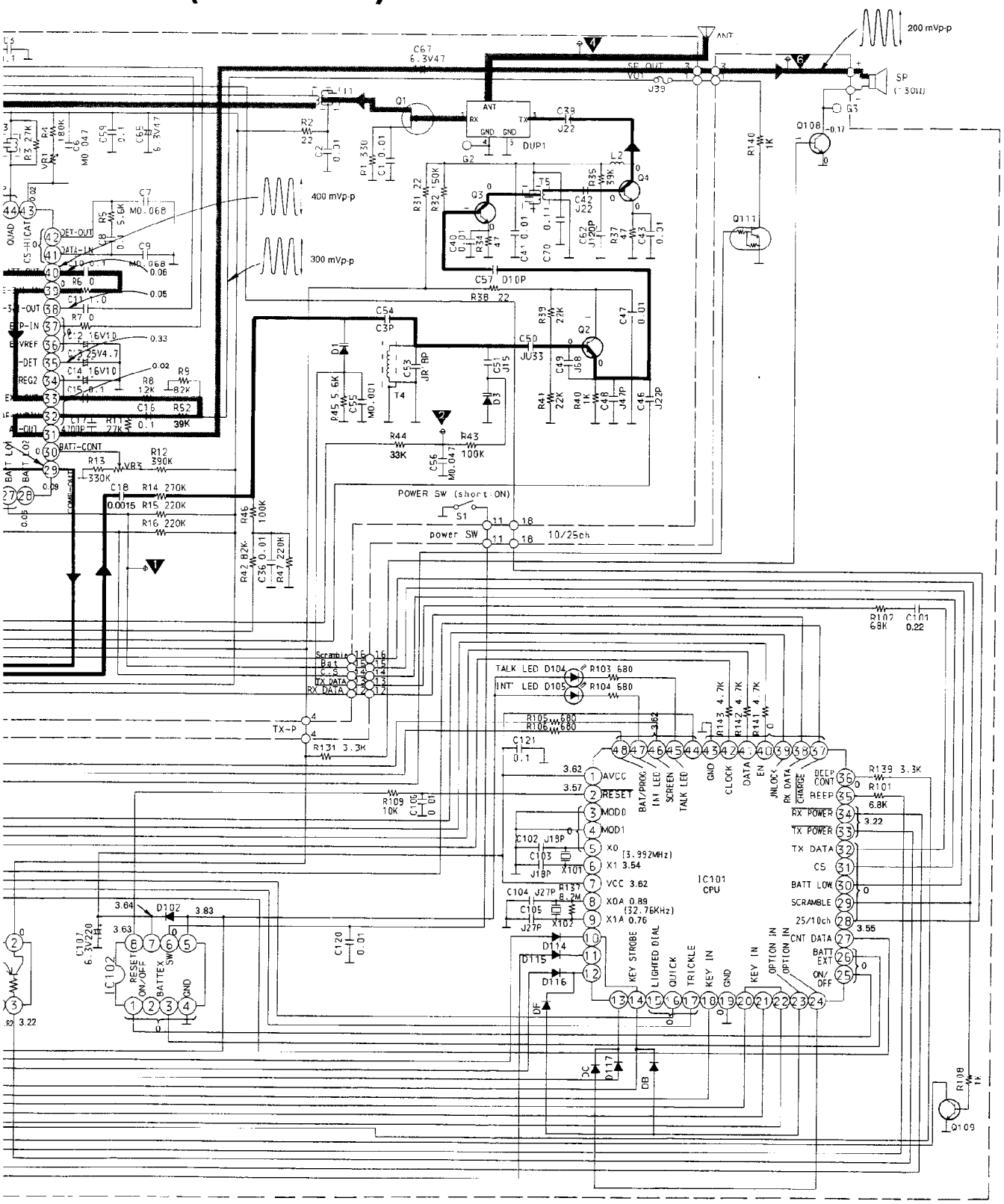
SCHEMATIC DIAGRAM (K



Notes:

1. S1: Power/Ringer Switch
2. S2: Channel Switch
3. S101: Talk Switch
4. S102: Page/Intercom Switch
5. S103~S111, S113, S114: 12 Key Switch
6. S112: Tone Switch
7. S116: Auto Switch
8. S117: Pause Switch
9. S118: Flash Switch
10. S119: Redial Switch
11. S120: Screen/Playback Switch
12. S121: Program Switch
13. S122: Memo/2way Record Switch
14. S123: Secure Switch
15. DC voltage mesurements are taken with voltmeter from the negative voltage line.

C DIAGRAM (KX-T4360H)



10/2way Record Switch
ure Switch
measurements are taken with
om the negative voltage line.

This schematic diagram may be modified at any time with development of new tecnology.

ADJUSTMENTS (KX-T4360R)

If your unit have below symptom, adjust for each item following table of adjustment.

Symptom	Remedy
The movement of Battery Low Indicator is wrong.	Adjust the adjustment item (A)
The base unit dose not receive a call from portable handset.	Adjust the adjustment item (B)
The base unit dose not transmit, and the transmit frequency is wrong.	Adjust the adjustment item (C)
The transmit frequency is wrong.	Adjust the adjustment item (D)
The transmit output is low, and the range is shorted between base unit and portable handset.	Adjust the adjustment item (E)
The reception sensitvity of base unit is wrong, the noise can be heard.	Adjust the adjustment item (F)
Dose not link between base unit and portable handset.	Adjust the adjustment item (G), (H)

Unit Condition:

1. Remove the antenna lead wire from P.C. Board of portable handset.
2. Power Supply: DC 3.9V
3. Power/Ringer switch: ON
4. Volume Selector: HIGH
5. Speaker Loard: 130Ω

How to set the test mode.

CH10 Test Mode

1. After connecting the diode DA, and apply a power supply DC 3.9 V.
   (The unit becomes CH10 Talk)
   ↓
2. Press the talk switch.
   (The unit becomes CH10 standby)
   ← 3. Press the Talk Switch.

When replacing these parts, adjust as shown below table.

Replace Parts	Adjustment items	Test Mode	Adjustment Points	Procedure
VR3	(A) Battery Low Adjustment	CH10 Talk	VR3	1. Set S1 to ON. 2. Set the power supply voltage to DC 3.57V, and adjust VR3 so that the reading of oscilloscope is Low→High.
IC1, TC1, X1, T4	(B) TX VCO Voltage Adjustment	CH10 Talk	T4	1. Set S7 to ON. 2. Adjust T4 so that the reading of digital voltmeter is 2.0 V±0.1V.
IC1, TC1, X1, T2	(C) RX VCO Voltage Adjustment	CH10 Talk	T2	1. Set S13 to ON. 2. Adjust T2 so that the reading of digital voltmeter is 2.1 V±0.1V.
TC1, X1, IC1	(D) TX Frequency Adjustment	CH10 Talk	TC1	1. Set S10 to ON. 2. Adjust TC1 so that the reading of frequency counter is 49.970 MHz±200 Hz.
T5	(E) TX output Adjustment	CH10 Talk	T5	1. Set S9 to ON. 2. Adjust T5 for 250 mV~450mV output on RF VTVM.

When replacing these parts, adjust as shown below table.

Replace Parts	Adjustment Items	Test Mode	Adjustment Point	Procedure
T1, T3	(F) RX Adjustment (Speaker Output) (2nd IF Output)	CH10 Talk	T3 T1	1. Set S8, S12, S14, to ON. 2. Apply a 40 dBμV output from S.S.G. (modulation frequency 1 kHz, dev. 3kHz) 3. Adjust T3 so that the reading of AF VTVM is maximum output. 4. Apply a 40 dBμV output from S.S.G. (modulation frequency 1 kHz, dev. 3kHz) 5. Adjust T1 so that the reading of RF VTVM is maximum output.
VR1	(G) Carrier Sensitivity Adjustment	CH10 Stand-By	VR1	1. Set S1, S8 to ON. 2. Apply a 12 dBμV output from S.S.G.and adjust VR1 when oscilloscope becomes from high to low.
	(H) Data Moudulation of Confirmation	CH10 Talk	——	1. Set S11 to ON. 2. Keep pressing the flash button. 3. Confirm for a 5.5~8.0 kHz FM Deviation Meter reading.

Flow Solder Side View

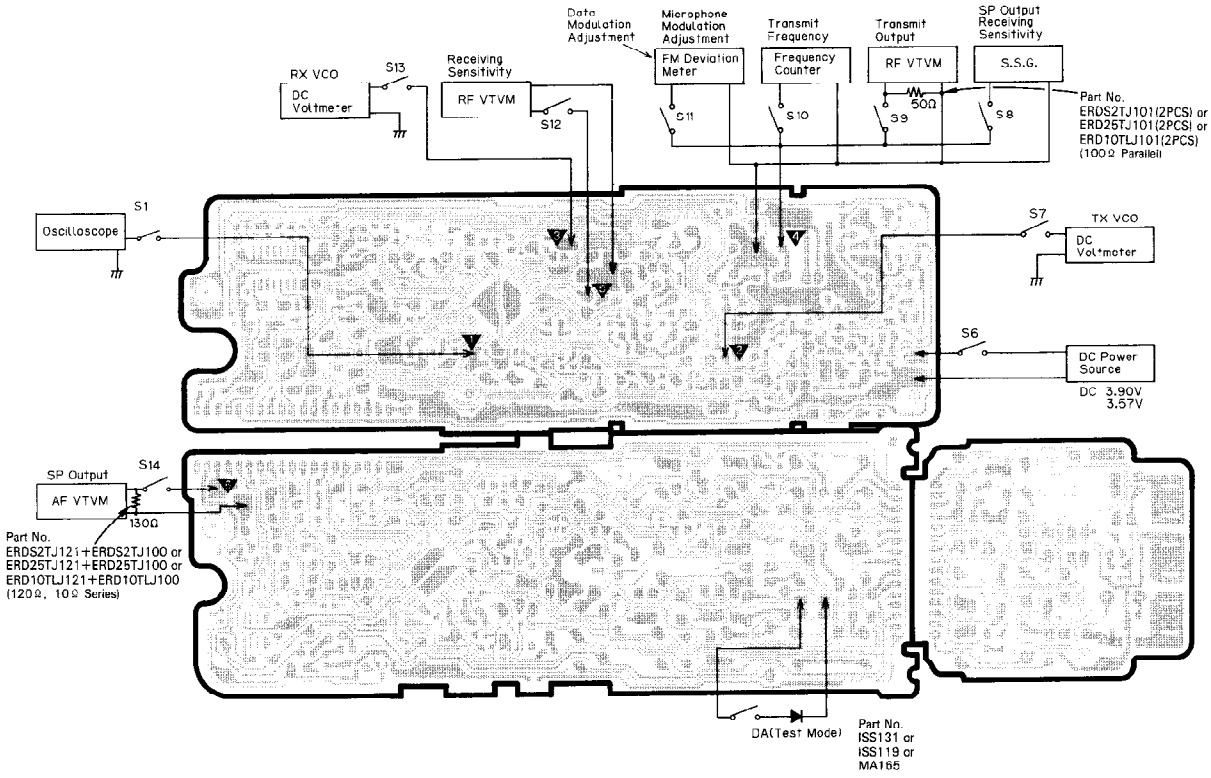


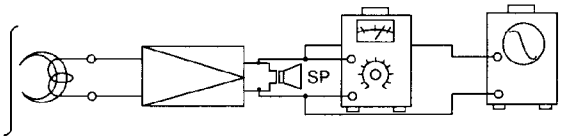
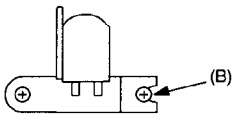
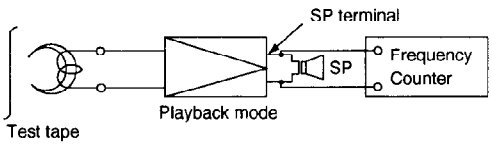
Fig. 14

FREQUENCY TABLE (MHz)

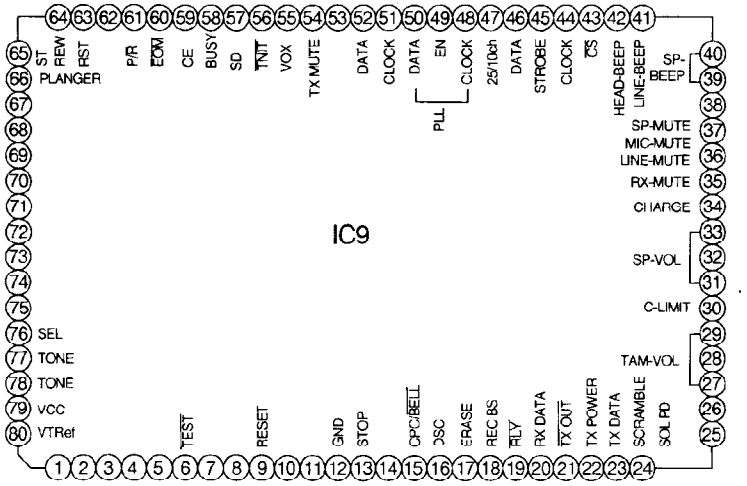
	KX-T4360H		KX-T4360R	
	Transmit Frequency	Receive Frequency	Transmit Frequency	Receive Frequency
CH1	46.610	49.670	49.670	46.610
CH2	46.630	49.845	49.845	46.630
CH3	46.670	49.860	49.860	46.670
CH4	46.710	49.770	49.770	46.710
CH5	46.730	49.875	49.875	46.730
CH6	46.770	49.830	49.830	46.770
CH7	46.830	49.890	49.890	46.830
CH8	46.870	49.930	49.930	46.870
CH9	46.930	49.990	49.990	46.930
CH10	46.970	49.970	49.970	46.970

MEASUREMENT AND ADJUSTMENT METHOD

Notes: 1. Make sure the heads are clean.
2. Make sure the capstan and pressure roller are clean.
3. Room temperuture for measuring and adjusting: 20±5°C (68±9°F)
4. Test equipments are not treated as replacement parts.

ITEM	MEASUREMENT & ADJUSTMENT	REMARKS
1. Heard azilmuth adjustment	1. Play back test tape (QZZCWAT or PQZZLCT2401A) [Ref. No. Z2]. 2. Adjust screw (B) shown in fig. B for maximum output at SP terminal. (Test equipment connection is shown below.)  Tast tape Playback mode VTVM Oscilloscope Fig. A	Record/playback head  Fig. B
2. Tape speed adjustment	1. Play back test tape (QZZCWAT or PQZZLCT2401A) [Ref. No. Z2]. 2. Adjust VR1 for 2990±10 Hz on frequency counter reading.  Fig. C	

CPU DATA (KX-T4360H)



IC9 PQVI4639A70F

Fig. 15

Pin No.	Terminal	Description	I/O	High	Low
1	COMP0	Key/Option Input	I		ON
2	COMP1	Key/Option Input	I		ON
3	COMP2	Key/Option Input	I		ON
4	COMP3	Key/Option Input	I		ON
5	RE0	Key/Option Input	I		ON
	RE0	or SD DTMF-R	I		ON
6	$\overline{TEST}$	$\overline{TEST}$	I	Normal	
7	OSC1	OSC1 3.58MHz	I	----	----
8	OSC2	OSC2 3.58MHz	O	----	----
9	RESET	RESET	I	RESET	
10	X1	X1 32.768 kHz	I	----	----
11	X2	X2 32.768 kHz	O	----	----
12	GND	GND		GND	----
13	D0	STOP	I	STOP	
14	D1	ERASE	O	ON	
15	D2	CPC/$\overline{BELL}$	I	CPC	BELL
16	D3	Auto Disconnect	I	Off-Hook	
17	D4	Position Switch	I	Active	Newtral
18	D5	Tape REC Bias	O	ON	
19	D6	TR-Relay Invert	O		TR ON
20	D7	RX Data	I	----	----
21	D8	$\overline{TX\ Out}$	O	Mute	Out
22	D9	TX Power	O	ON	OFF
23	D10	TX Data	O	----	----
24	D11	Scramble	O	ON	
25	D12	$\overline{AC\ Down}$	I	AC ON	AC OFF
26	D13	SQUELCH	I	ON	
27	R00	TAM-Volume	O		
28	R01	TAM-Volume	O		
29	R02	TAM-Volume	O		
30	R03	Current Limit	O	Unlimit	Limit

Pin No.	Terminal	Description	I/O	High	Low
31	R10	SP-Volume	O		
32	R11	SP-Volume	O		
33	R12	SP-Volume	O		
34	R13	Charge Input	I	Charge	
35	R20	RX Mute	O	Mute	
36	R21	Line Mute	O	Mute	
37	R22	Mic Mute	O	Mute	
38	R23	SP-Phone Mute	O	Mute	
39	R30	SP Beep	O		
40	R31	SP Beep	O		
41	TOD	Line & TX Beep	O		
42	R33	Head Beep	O		
43	R40	$\overline{\text{SP-Phone CS}}$	O		Chip On
44	SCK1	Clock	O	-----	-----
45	R42	Strobe, LCK	O	IC Output	
46	S01	Data	O	-----	-----
	or R43	or Key Strobe	O		ON
47	R50	PLL25/10ch PLL	O	25ch	10ch
48	SCK2	Clock PLL	O	-----	-----
49	R52	Enable PLL	O	Active	Normal
50	S02	Data PLL	O	-----	-----
51	R60	Clock	O	-----	-----
52	R61	Data	O	-----	-----
53	R62		O		
54	R63	$\overline{\text{EXT Power}}$	O		Power On
55	R70	VOX Input	I		VOX
56	R71	Voice Initial	O		Initial
57	R72	Voice Serial	O	Normal	
58	R73	Voice Busy	I	Busy	
59	R80	Chip Enable IC Greeting	O		Enable
60	R81	$\overline{\text{End of MSG}}$ IC Greeting	I		End MSG
61	R82	Play/$\overline{\text{Rec}}$ IC Greeting	O	Play	Rec
62	R83	Key Strobe	O		On
63	R90	Hi-speed	O		On
	R90	or Reset IC Greeting	O	Reset	
64	R91	Rew	O	Rew	Forward
65	R92	Start	O		On
66	R93	Planger	O		On
67	RA0	Option Strobe	O		On
68	RA1	Option Strobe	O		On
69	RA2	Option Strobe	O		On
70	RA3	Option Strobe	O		On
71	RB0	Power Supply RVN SW.	O	On	
72	RB1	RVN	I	-----	-----
73	RB2	EST DTMF-R	I	DTMF	
74	RB3	ASK DTMF-R	O		
75	RC0	Option Strobe	O		On
76	SEL	CPU Speed Select	I	Fixed	-----
77	TONEC	DTMF-C Out	O	-----	-----
78	TONER	DTMF-R Out	O	-----	-----
79	VCC	Vcc	I	-----	-----
80	VTref	VTref	I	Fixed	-----

CPU DATA (KX-T4360R)

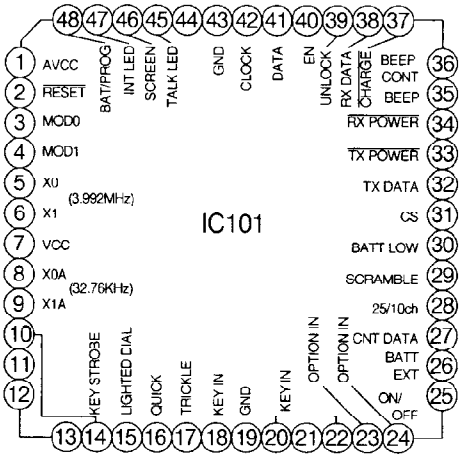


Fig. 16

IC101 PQVI89123210

Pin No.	Terminal	Description	I/O	High	Low
1	AVCC	Source Terminal	---		
2	$\overline{RST}$	$\overline{RESET}$	I	Normal	Reset
3	MOD0	Action Mode Disig.	I		(Stable)
4	MOD1	Action Mode Disig.	I		(Stable)
5	X0	Main Clock	I		
6	X1	(3.992MHz)	O		
7	VCC	Source Terminal	---		
8	X0A	Sub Clock	I		
9	X1A	(32.768kHz)	O		
10	P27	Key Strobe	O	Normal	Active
11	P26	Key Strobe	O	Normal	Active
12	P25	Key Strobe	O	Normal	Active
13	P24	Key Strobe	O	Normal	Active
14	P23	Key Strobe	O	Normal	Active
15	P22	Lighted Dial	O	ON	OFF
16	P21	Quick Charge	O	0.3 C	Normal
17	P20	Trickle Charge	O	0.01 C	Normal
18	P17	Key In 3	I	Disable	Enable
19	VSS	GND Terminal	---		
20	P16	Key In 2	I	Disable	Enable

Pin No.	Terminal	Description	I/O	High	Low
21	P15	Key In 1	I	Disable	Enable
22	P14	Key In 0	I	Disable	Enable
23	P13	Option In 1	I	Disable	Enable
24	P12	Option In 2	I	Disable	Enable
25	P11	$\overline{\text{ON}}$/OFF	I	OFF	ON
26	P10	Batt Exist	I	Able	Enable
27	P07	$\overline{\text{CHARGE}}$ (Control)	I	Charger	Base Unit
28	P06	25RF Change	O		Normal
29	P05	Scramble (and LED)	O	ON	OFF
30	P04	Batt Low	I	Hi	Low
31	P03	Squelch	I	Weak	Strong
32	P02	TX DATA	O	(H/L)	Normal
33	P01	$\overline{\text{TX POWER}}$	O	OFF	ON
34	P00	$\overline{\text{TX POWER}}$	O	OFF	ON
35	P37/BZ	Beep Clock	O	Normal	(H/L)
36	P36/INT2	Beep Control	O	Small	Large
37	P35/INT1	$\overline{\text{CHARGE}}$	I	Normal	CHARGE
38	P34/TO/INT	RX DATA	I	(Active)	Normal
39	P33/EC/SCO	PLL Unlock	I	Unlock	Lock
	P33/EC/SCO	External ANT. Control	O	Mute	Unmute
40	P32/SI	PLL EN	O	Latch	Normal
41	P31/SO	PLL DATA	O	(Active)	Normal
42	P30/SCK	PLL CLOCK	O	(Active)	Normal
43	AVSS	GND Terminal	—		
44	AVR	Source Terminal	—		
45	P43	LED TALK	O		ON
46	P42	SCREEN/PLAY BACK	O		ON
47	P41	LED INT	O		ON
48	P40	LED BAT/PROG	O		ON

EXPLANATION OF IC TERMINALS

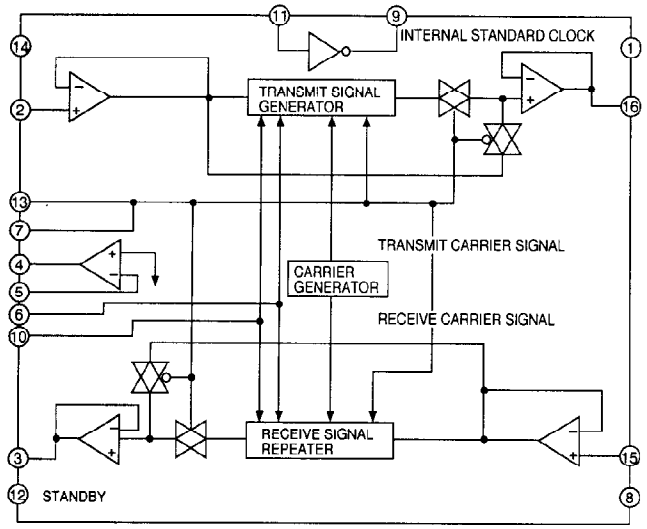


Fig. 25

Base Unit **IC11 PQVIM64026FP**

Portable Handset **IC2 PQVIM64026FP**

Pin name	Function	Pin No.	I/O	Description
Vdd	Power source	1		+Power source
Vss	GND	8		For ground connection
NC	Not connected	14		
Xin	Input bf oscillation circuit	11	Input	Oscillator connection terminal (External clock supply/cystal oscillation is enabled.)
Xout	Output of oscillation circuit	9	Output	
TXin	Input of transmitted audio	2	Input	Input of transmitted audio signal (bias in the internal Vref)
TXout	Output of transmitted audio	16	Output	Output of trensmitted audio signal
RXin	Input of received audio	15	Input	Input of received audio signal (bias in the internal Vref)
RXout	Output of received audio	3	Output	Output received audio signal
OPout	Output of OP Amp.	4	Output	Output of optional OP Amp.
OP	Input of OP Amp.	5	Input	Input of optional OP Amp.
GCON	Gain control	6	Input	Control of transmitted/ received signal level GCON=L: TX=0 dB RX=0 dB CGON=H: TX=-6 dB RX=+6 dB
THRU1	Pass mode selection	13	Input	THRU1 THRU2 Pass mode L L Transparent through pass L H Filter through pass H L Confidential talk pass H H Confidential talk pass (Same mode as above)
THRU2	Pass mode selection	7	Input	
STB	Standby Selection	12	Input	Standby mode selection (Standby mode when STB is L)
FSEL	Selection of dividing ratio of internal clock	10	Input	When 3.58/3.69 MHz is used, FSEL is L. When 4.00/4.19 MHz is used, FSEL is H.

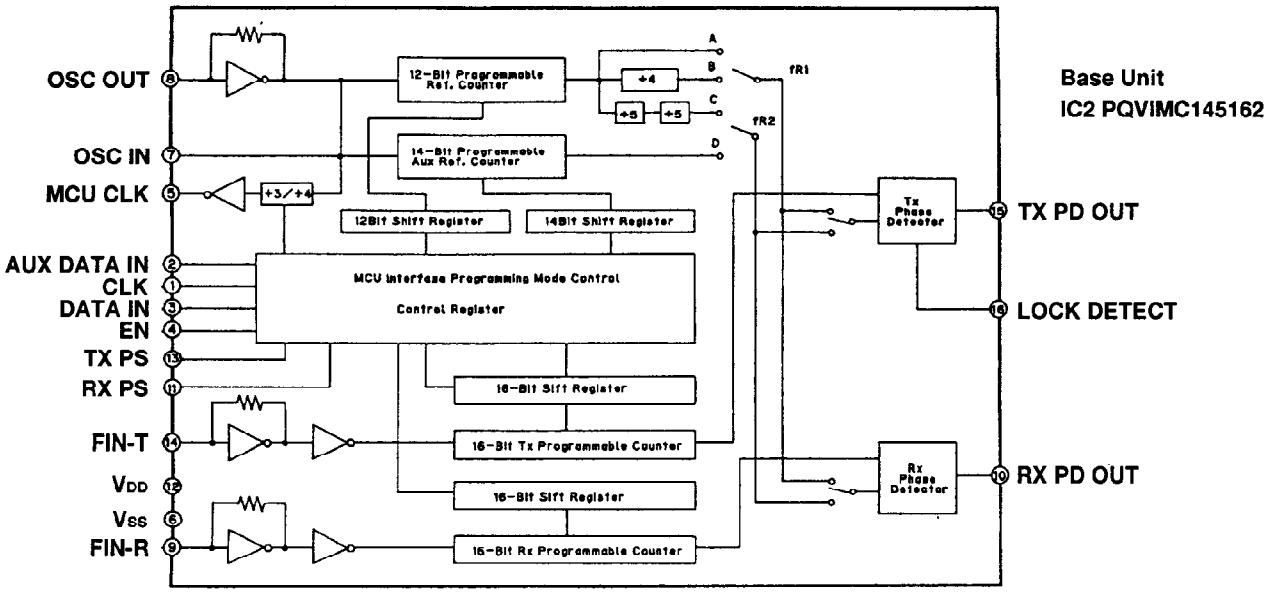


Fig. 26

Pin Description

OSC in, OSC out

These pins form a reference oscillator when connected to an external paralle-resonant crystal. OSC in may also serve as input for an externally generated reference signal which is typically ac-coupled.

MCU-CLK

These output pins provide a frequency signal of Crystal Frequency (OSC out)÷3 or÷4 which is controlled by the bit function of the Control Register.

This signal can be a clock source for the MCU and other system clock.

Aux. DATA IN, DATA IN, CLK, EN

These four pins provide an MCU Serial Interface for Programming the Reference Counter, the Transmit Channels Divider Counter, the Receive Channels Divider Counter and various Control of the PLL including the Power Saving Mode and the Programming Format.

TX-PS/f_{TX}, RX-PS/f_{RX}

For normal application, these Output Pins provide the status of the internal Power Saving Mode Operation. If the TX-Channels Divider Counter circuitry is in Power Down Mode, the TX-PS will output a "HIGH" state. Else if the Rx-Channels Divider Counter Circuitry is in Power Down Mode, RX-PS will be set to "HIGH". These output can be applied for controlling the External Power Switch for the Transmitter and the Receiver to save MCU control pins.

fin-T, fin-R

fIN-T, fIN-R are inputs to the Transmit and Receive Divider Counter respectively.

These signals are typically drived from the Loop VCO and ac-coupled. The minimum input signal level is 200 mVp-p, 60.0 MHz, Vdd = 2.5 V.

TXPDOUT, RXPDOUT

These are 3-state outputs of the transmit and receive phase detector for use as loop error signal or Phase Detector signal.

Frequency fv>f_R or fv leading: Output = Negative Pulse.
Frequency fv<f_R or leading: Output=Positive Pulse.
Frequency fv=f_R and Phase Coincidence: Output = High Impedance State.

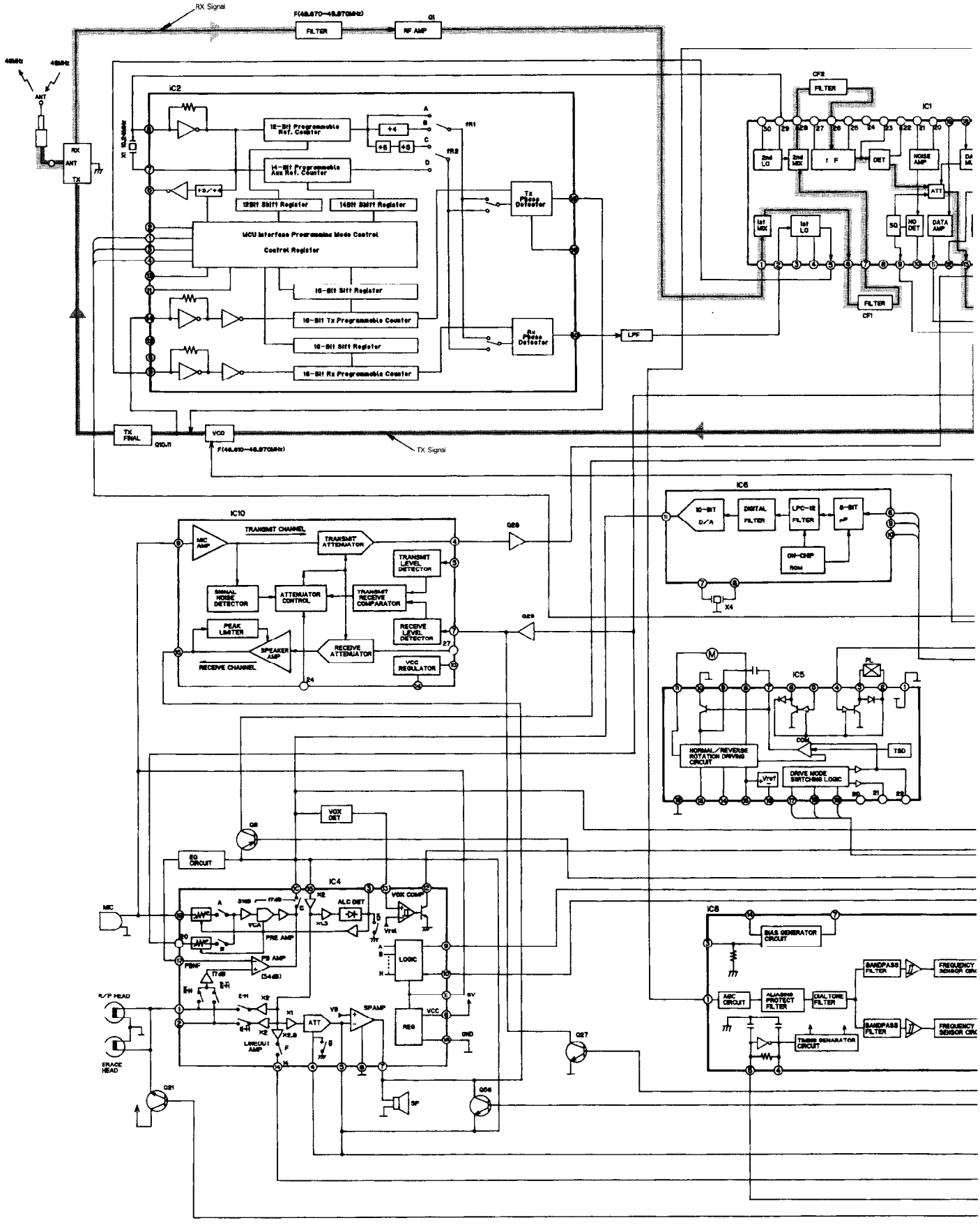
LOCK DETECT

Lock Detect Signal associated with the transmit loop. The lock output is set to "1" to indicate an out-of-lock condition.

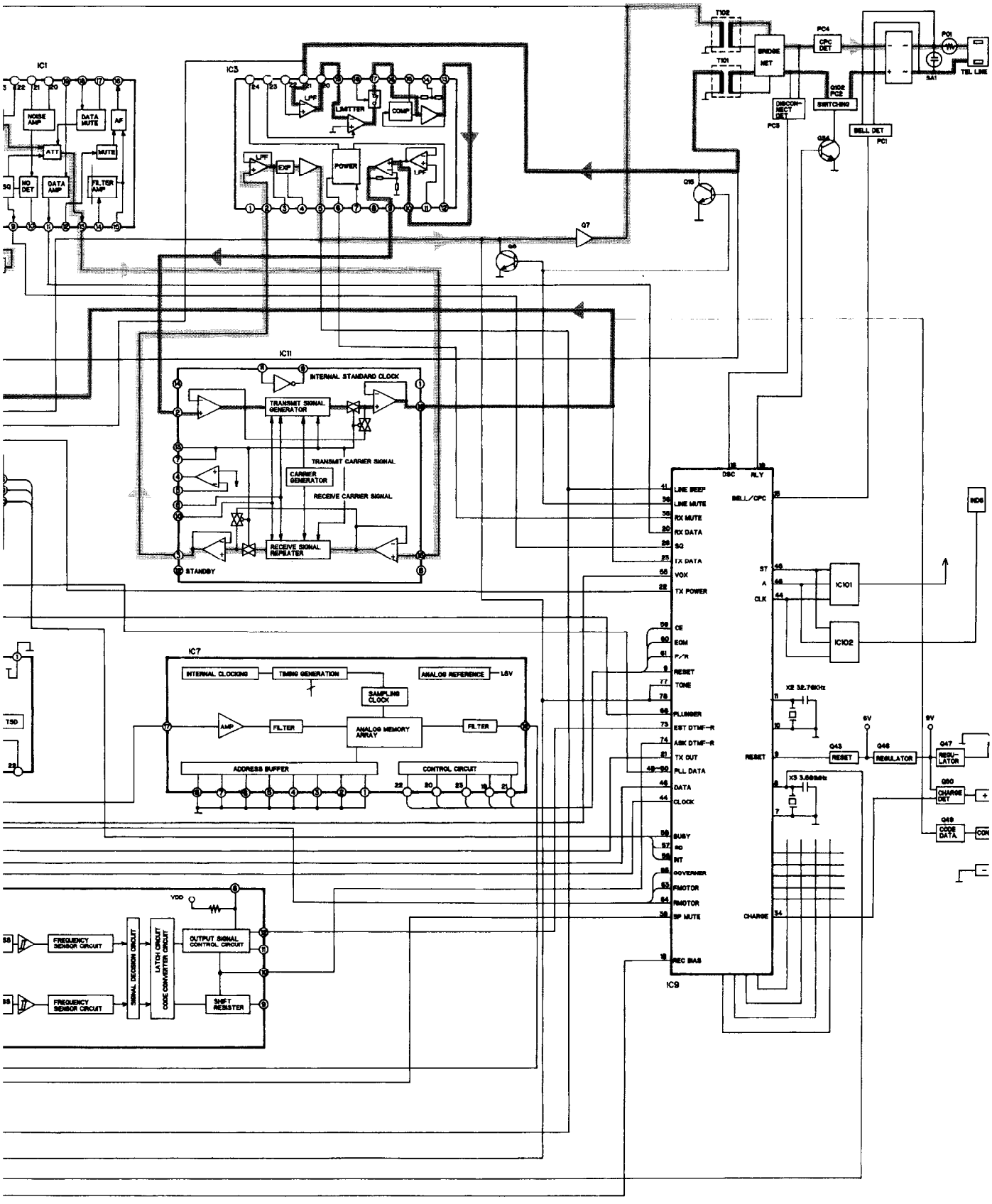
Vdd, Vss

Vdd is the most positive Power Supply potential ranging from 2.5 to 5.5 volts with respect to Vss. Vss is the most negative supply

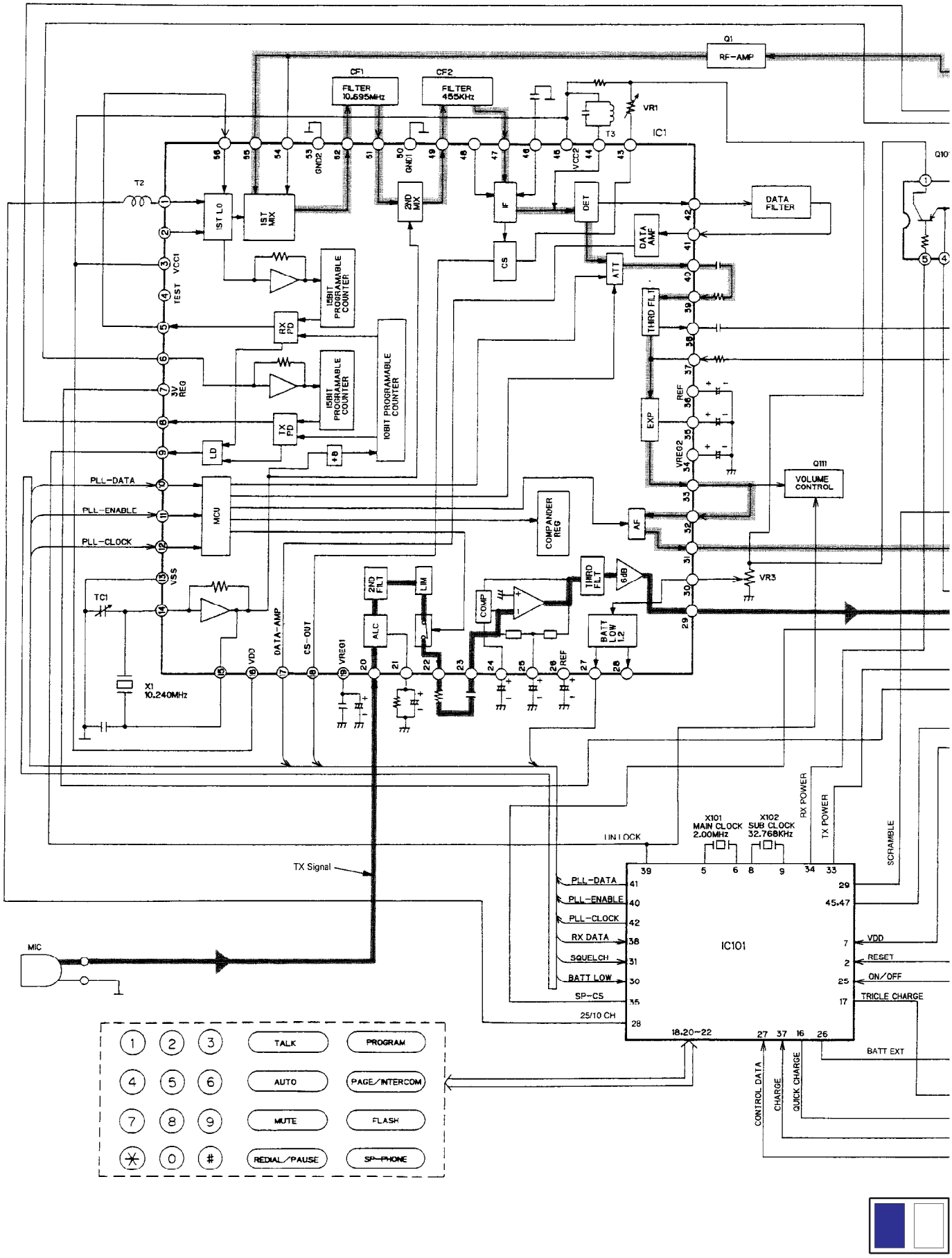
BLOCK DIAGRAM (K



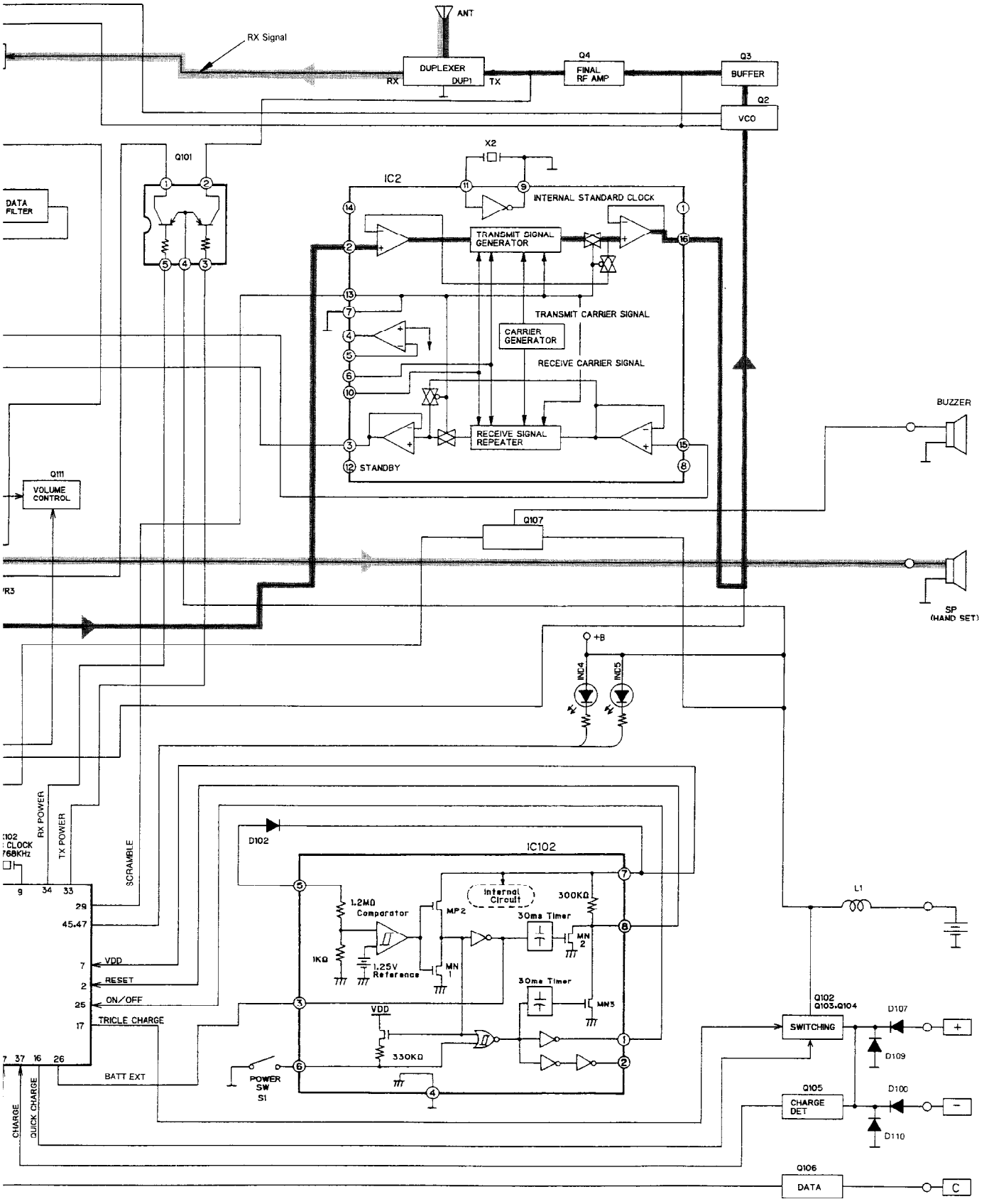
AM (KX-T4360H)


IC1
IC3
IC11
IC7
IC9
INTERNAL STANDARD CLOCK
TRANSMIT SIGNAL GENERATOR
TRANSMIT CARRIER SIGNAL
CARRIER GENERATOR
RECEIVE CARRIER SIGNAL
RECEIVE SIGNAL REPEATER
STANDBY
INTERNAL CLOCKING
TIMING GENERATION
ANALOG REFERENCE
SAMPLING CLOCK
AMP
FILTER
ANALOG MEMORY ARRAY
ADDRESS BUFFER
CONTROL CIRCUIT
FREQUENCY SENSOR CIRCUIT
SIGNAL DECISION CIRCUIT
LATCH CIRCUIT
CODE CONVERTER CIRCUIT
OUTPUT SIGNAL CONTROL CIRCUIT
SHIFT RESISTER
BRIDGE NET
CPC DET
SWITCHING
BELL DET
TEL LINE
REGULATOR
CHARGE DET
CODE DATA
LINE BEEP
LINE MUTE
RX MUTE
RX DATA
SQ
TX DATA
VOX
TX POWER
RESET
TONE
PLLUNNER
EST DTMF-R
ASK DTMF-R
TX OUT
PLL DATA
DATA
CLOCK
BUSY
INT
GOVERNER
PMOTOR
RMOTOR
SP MUTE
REC BIAS
CHARGE

BLOCK DIAGRAM (KX



IAGRAM (KX-T4360R)



CABINET AND ELECTRICAL PARTS LOCATION (KX-T4360H)

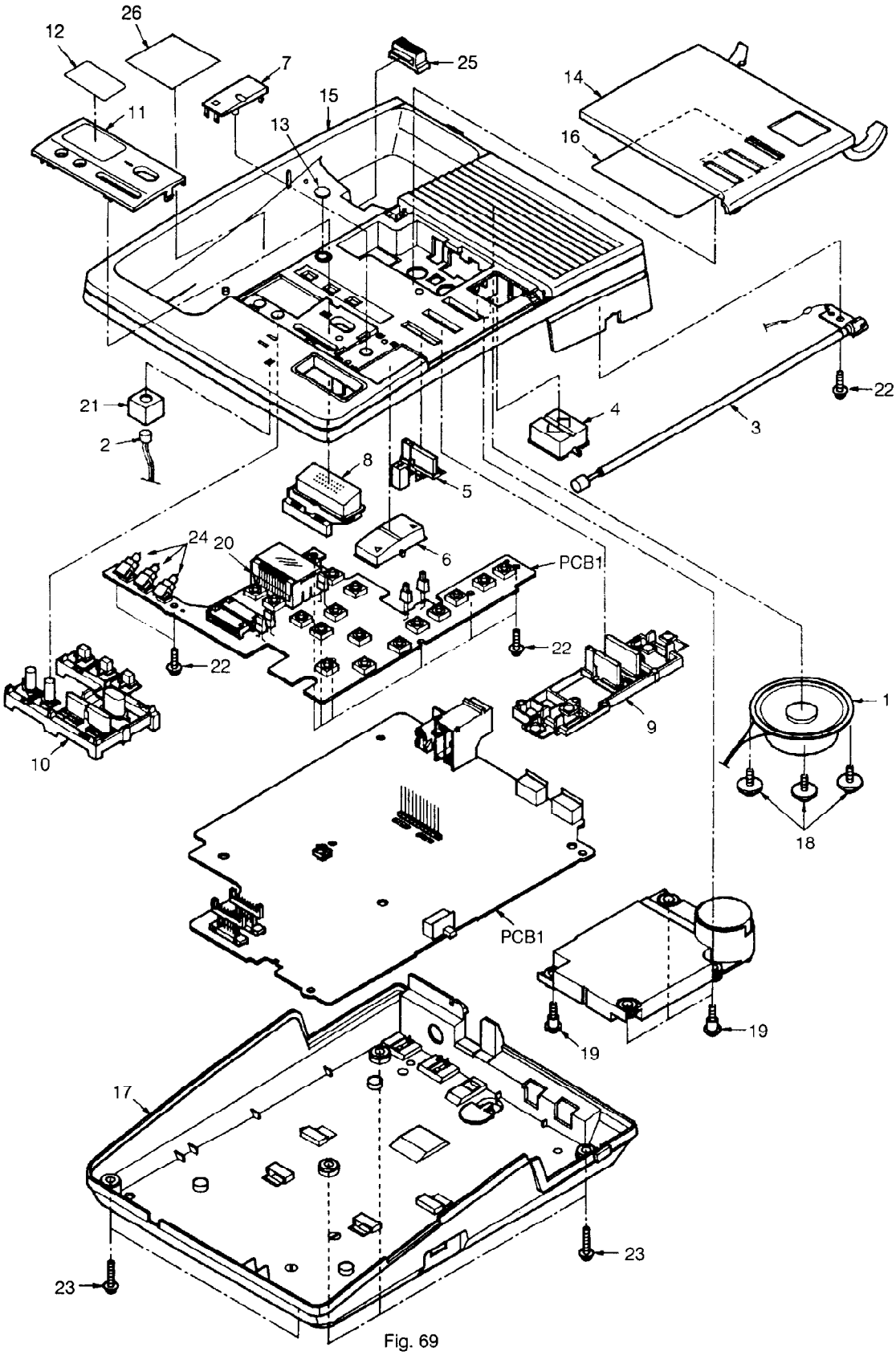


Fig. 69

CABINET AND ELECTRICAL PARTS LOCATION (KX-T4360R)

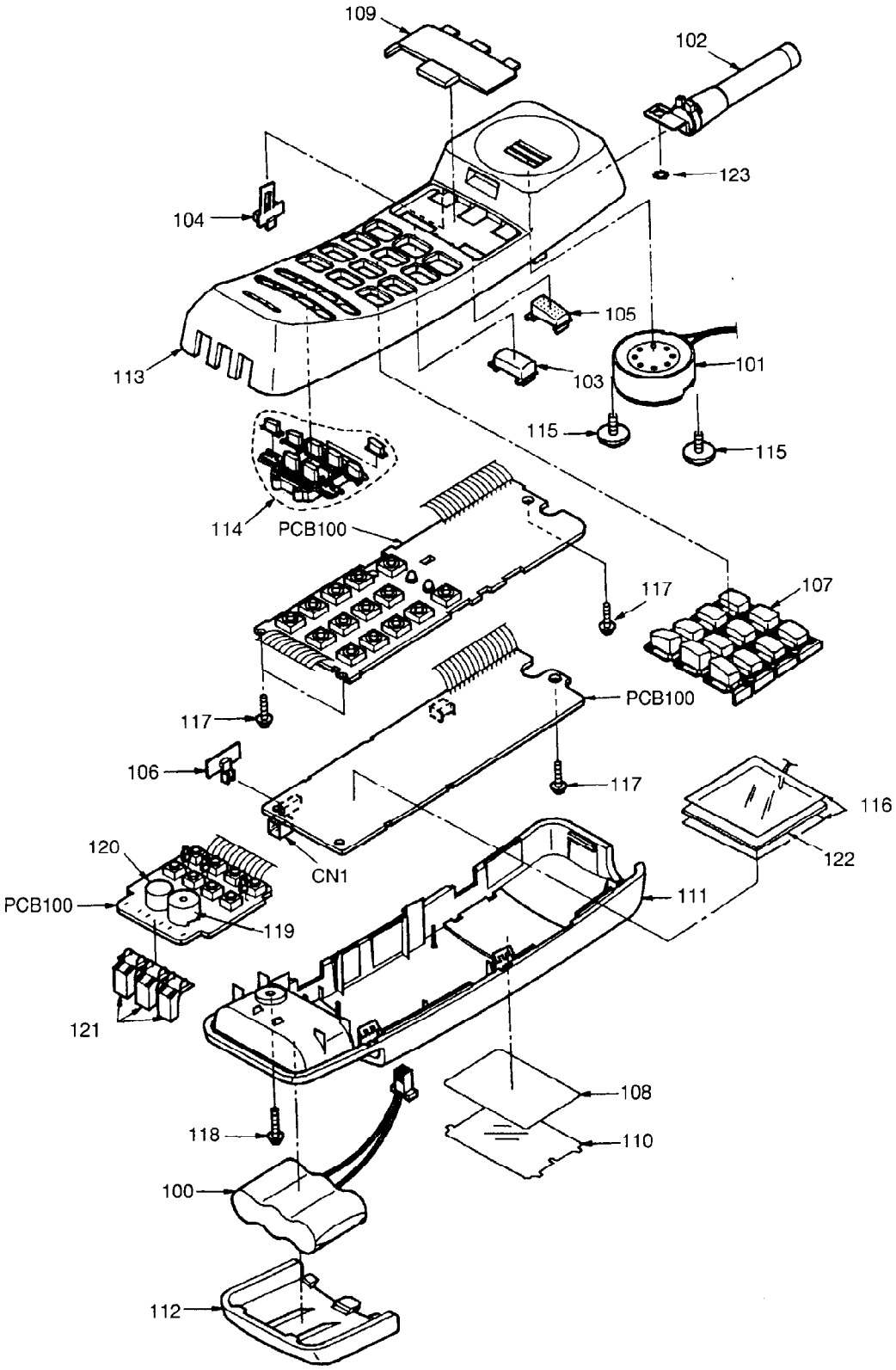


Fig. 70

CASSETTE DECK PARTS LOCATION

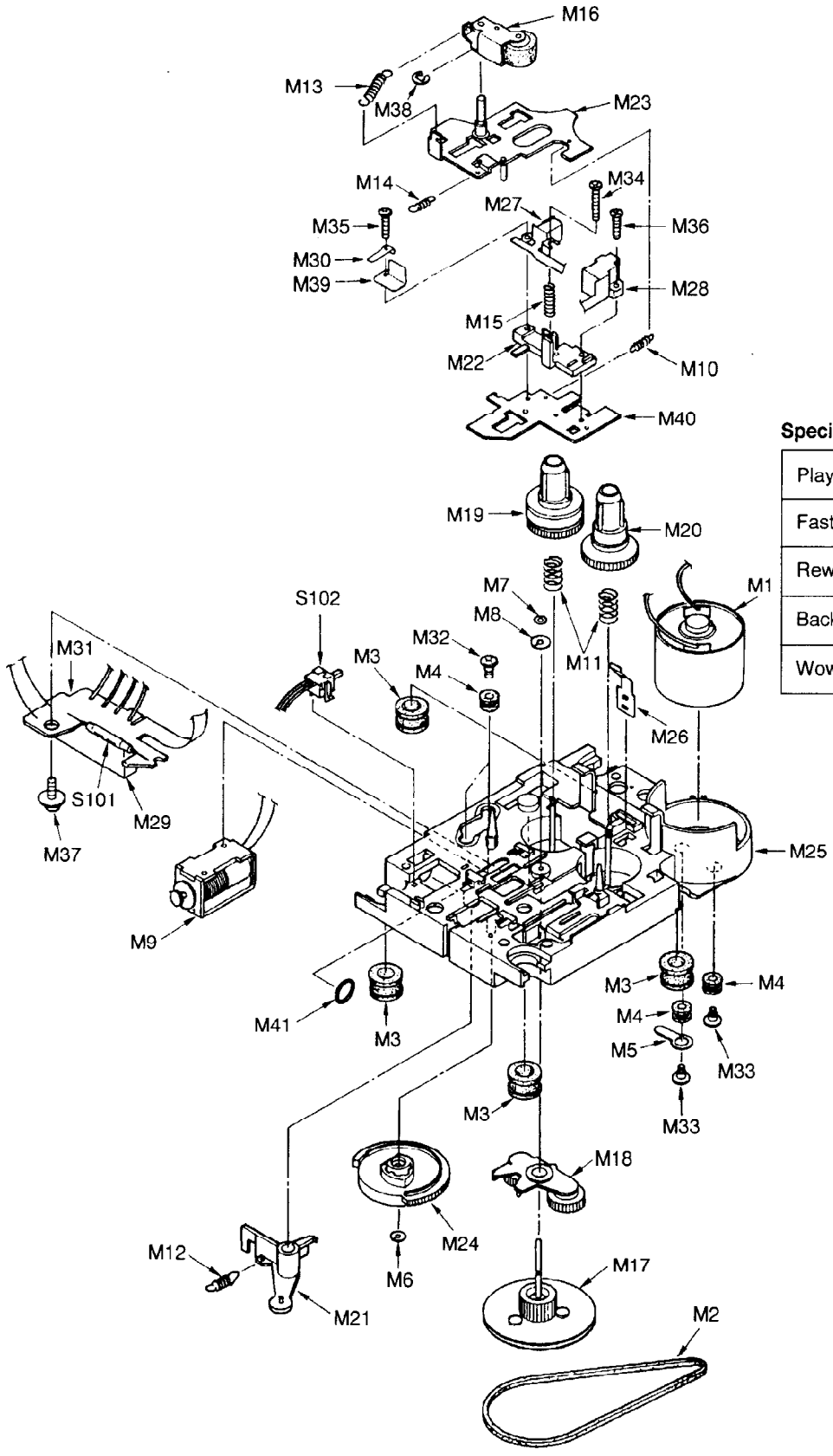


Fig. 71

Actual Size of Screws

Ref No.	Figure
M32	
M33	
M34	
M35	
M36	
M37	

Specifications

Playback torque	10~20 g · cm
Fast forward torque	10~20 g · cm
Rewind torque	35 g · cm
Back tension	0.5~3.5 g · cm
Wow and flutter	0.65%

ACCESSORIES AND PACKING MATERIALS

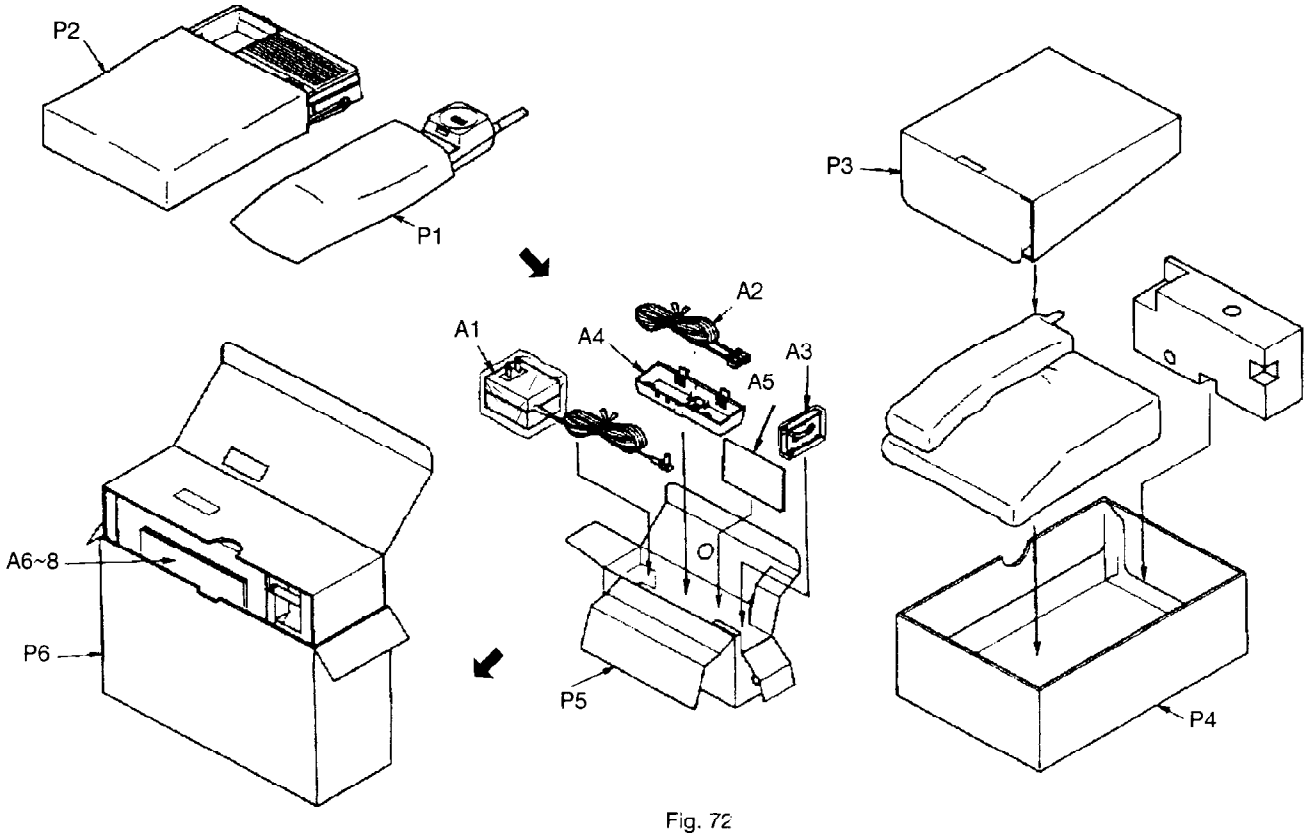


Fig. 72

TOOLS

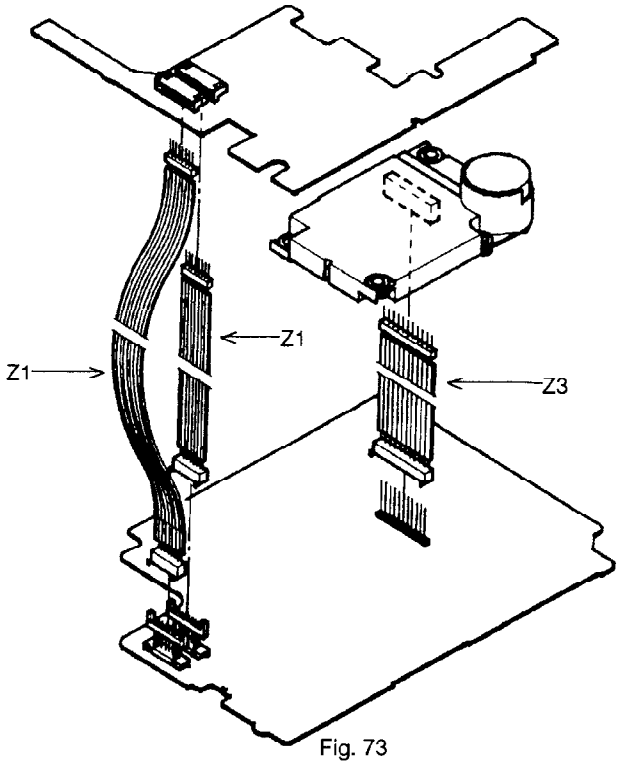


Fig. 73

This replacement parts list is U.S.A. version only. Refer to the simplified manual (cover) for Canada or other areas.

REPLACEMENT PARTS LIST

KX-T4360H

1. RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

2. Important safety notice

Components identified by the ⚠ mark special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

3. The S mark indicates service standard parts and may differ from production parts.

4. RESISTORS & CAPACITORS

Unless otherwise specified.

All resistors are in ohms (Ω) K=1000Ω, M=1000KΩ

All capacitors are in MICRO FARADS (μF) P=μμF

*Type &Wattage of Resistor

Type

ERC:Solid	ERX:Metal Film	PQ4R:Carbon
ERD:Carbon	ERG:Metal Oxide	ERS:Fusible Resistor
PQRD:Carbon	ER0:Metal Film	ERF:Cement Resistor

Wattage

10,16:1/8W	14,25:1/4W	12:1/2W	1:1W	2:2W	3:3W

*Type & Voltage of Capacitor

Type

ECFD:Semi-Conductor	ECCD,ECKD,ECBT,PQCBC : Ceramic
ECQS:Styrol	ECQE,ECQV,ECQG : Polyester
PQCUV:Chip	ECEA,ECSZ : Electrolytic
ECQMS:Mica	ECQP : Polypropylene

Voltage

ECQ Type	ECQG ECQV Type	ECSZ Type	Others	
1H: 50V	05: 50V	0F:3.15V	0J :6.3V	1V :35V
2A:100V	1:100V	1A:10V	1A :10V	50,1H:50V
2E:250V	2:200V	1V:35V	1C :16V	1J :63V
2H:500V		0J:6.3V	1E,25:25V	2A :100V

Ref. No.	Part No.	Part Name & Description	Pcs/Set
		CASSETTE DECK PARTS	
M1	PQFMJD2300Z	MOTOR ASS'Y	1
M2	PQFB10004Z	ANGULAR BELT	1
M3	PQFI10001Z	RUBBER CUSION	4
M4	PQFI14Z	RUBBER CUSION	4
M5	PQFJ4Z	TERMINAL	1
M6	PQFN16Z	WASHER	1
M7	PQFN33Z	WASHER	1
M8	PQFN49Z	WASHER	1
M9	PQFP10001Z	PLUNGER	1
M10	PQFS10002Z	SPRING	1
M11	PQFS10005Z	SPRING	2
M12	PQFS10010Z	SPRING	1
M13	PQFS10019Z	SPRING	1
M14	PQFS10021Z	SPRING	1
M15	PQFS73Z	SPRING	1
M16	PQFIJD2200X	PINCH LEVER ASS'Y	1
M17	PQFFJD2300Z	FLY WHEEL ASS'Y	1
M18	PQFG1D2300Z	GEAR ARM ASS'Y	1
M19	PQFR3D2200Z	TAKEUP REEL TABLE ASS'Y	1
M20	PQFR4D2200Z	SUPPLY REEL TABLE ASS'Y	1
M21	PQFW10015Z	TRIGGER LEVER	1
M22	PQFW10016Z	HEAD BASE-C	1
M23	PQFDJD2300Z	HEAD BASE-A ASS'Y	1
M24	PQFG2D2300Z	CAM GEAR ASS'Y	1
M25	PQFCJD2300Z	MECHANICAL BASE ASS'Y	1
M26	PQFD10019Z	LEAF SPRING	1
M27	PQJH1M101Z	MAGNETIC HEAD	1
M28	PQJH6M101Z	MAGNETIC HEAD	1
M29	PQJS11B32Z	CONNECTOR, 11PIN	1
M30	PQJT10029Y	TERMINAL	1
M31	PQUP10203Z	P.C.BOARD	1
M32	PQHD10013Z	SCREW	2
M33	PQHD15Z	SCREW	2
M34	XSN17+10FN-3	SCREW	1
M35	XSN17+6FZ-3	SCREW	1
M36	XSN17+7FN-A	SCREW	1
M37	XTW26+6F	TAPPING SCREW	1
M38	XUC15FY	RETAINING RING	1
M39	PQHX10258Z	INSULATOR	1
M40	PQFD10017Z	HEAD BASE-B	1
M41	PQFE10004Z	RUBBER RING	1
S101	PQSE17Y	REED SWITCH	1
S102	PQSH1A52X	POSITION SWITCH	1
		CABINET AND ELECTRICAL PARTS	
1	PQAS5P22Z	SPEAKER	1
2	PQJM113Z	MICROPHONE	1
3	XEAPQK170BC	ANTENNA	1
4	PQBC10157Z1	BUTTON	1
5	PQBC10158Z1	BUTTON	1
6	PQBC10159Z1	BUTTON	1
7	PQBC10160Z1	BUTTON	1
8	PQBC10161Z1	BUTTON	1
9	PQBX10210Z1	BUTTON	1
10	PQBX10211Z1	BUTTON	1
11	PQGG10044Z1	GRILLE	1
12	PQGP10048Z1	PANEL S	1
13	PQGX10003Y4	ORNAMENT	1
14	PQKK10043Z1	CASSETTE COVER	1
15	PQKM10147Z1	CABINET BODY	1
16	PQQT10954Z	INDICATION LABEL	1
17	PQYF10059Z1	CABINET PLATE	1
18	PJHE5065Z	SCREW	3
19	PQHD10009Z	SCREW	4
20	PQHR10267Z	SPACER	1
21	PQMG10001Z	RUBBER, MICROPHONE	1
22	XTW3+S10P	SCREW	8
23	XTW3+S14P	SCREW	5
24	PQJT10092Z	BATTERY TERMINAL	3
25	PQKE10018Y1	HANDSET HOLDER	1
26	PQQT10816Y	NOTE LABEL	1
		PRINTED CIRCUIT BOARD PARTS	
PCB1	PQWPT4360HM	P.C.BOARD ASS'Y (RTL)	1
		(ICS)	
IC1	AN6169K	IC	1
IC2	PQVIMC145162	IC	1
IC3	AN6165SB	IC	1
IC4	PQVISC111815	IC	1
IC5	AN6658K	IC	1
IC6	PQVICS10080N	IC	1
IC7	PQVITAD01GM1	IC	1
IC8	PQVILC73872M	IC	1
IC9	PQVI4639A70F	IC	1
IC10	PQVISC77655V	IC	1
IC11	PQVIM64026FP	IC	1
IC101	PQVIBU2042F	IC	1
IC102	PQVIMC4094BF	IC	1

This replacement parts list is U.S.A. version only. Refer to the simplified manual (cover) for Canada or other areas.

Ref. No.	Part No.	Part Name & Description		Pcs/Set
		(TRANSISTORS)		
Q1	2SK543	TRANSISTOR(SI)		1
Q2	2SD601R	TRANSISTOR(SI)	S	1
Q5	2SD601R	TRANSISTOR(SI)	S	1
Q6	PQVFT1B4M	TRANSISTOR(SI)		1
Q7	2SD601R	TRANSISTOR(SI)	S	1
Q8	UN5213	TRANSISTOR(SI)		1
Q9	UN5113	TRANSISTOR(SI)	S	1
Q10	2SC2295	TRANSISTOR(SI)		1
Q11	2SC2295	TRANSISTOR(SI)	S	1
Q15	PQVFT1B4M	TRANSISTOR(SI)		1
Q16	UN5213	TRANSISTOR(SI)		1
Q21	2SD1819A	TRANSISTOR(SI)		1
Q27	2SD601R	TRANSISTOR(SI)	S	1
Q28	2SD601R	TRANSISTOR(SI)	S	1
Q29	2SD601R	TRANSISTOR(SI)	S	1
Q30	2SD1819A	TRANSISTOR(SI)		1
Q34	UN5113	TRANSISTOR(SI)	S	1
Q35	2SD1991A	TRANSISTOR(SI)		1
Q43	2SB1218A	TRANSISTOR(SI)		1
Q45	2SD601R	TRANSISTOR(SI)	S	1
Q46	2SD1991A	TRANSISTOR(SI)		1
Q47	2SD2137	TRANSISTOR(SI)		1
Q49	2SC1740S	TRANSISTOR(SI)		1
Q50	2SA933	TRANSISTOR(SI)		1
Q51	2SA933	TRANSISTOR(SI)		1
Q53	UN5113	TRANSISTOR(SI)	S	1
Q54	2SD601R	TRANSISTOR(SI)	S	1
Q56	2SD1819A	TRANSISTOR(SI)		1
Q101	2SC1740S	TRANSISTOR(SI)	⚠	1
Q102	2SA1625	TRANSISTOR(SI)	S⚠	1
		(DIODES)		
D1	MA4056	DIODE(SI)		1
D2	MA840BTAKU	DIODE(SI)		1
D3	MA840ATAKU	DIODE(SI)		1
D4	PQVDS5688G	DIODE(SI)		1
D21	1SS131	DIODE(SI)		1
D25	1SS131	DIODE(SI)		1
D28	MA4068	DIODE(SI)		1
D35	1SS131	DIODE(SI)		1
D36	1SS131	DIODE(SI)		1
D37	1SS131	DIODE(SI)		1
D38	1SS131	DIODE(SI)		1
D43	1SS131	DIODE(SI)		1
D44	1SS131	DIODE(SI)		1
D45	MA4051	DIODE(SI)		1
D46	1SS131	DIODE(SI)		1
D47	MA4068	DIODE(SI)		1
D48	MA4110	DIODE(SI)		1
D51	1SS131	DIODE(SI)		1
D52	1SS131	DIODE(SI)		1
D101	PQVDMTZ3R6	DIODE(SI)	⚠	1
D102	1SS131	DIODE(SI)	⚠	1
D103	PQVDS1ZB40F1	DIODE(SI)	⚠	1
D502	LN265RPH	LED		1
D503	LN265RPH	LED		1
D505	LN224RP	LED		1
D506	LN324GP	LED		1
D508	LN224RP	LED		1
D609	1SS131	DIODE(SI)		1
D610	1SS131	DIODE(SI)		1
D611	1SS131	DIODE(SI)		1
OD3	MA110	DIODE(SI)		1
OD15	MA110	DIODE(SI)		1
J32	1SS131	DIODE(SI)		1
J299	MA110	DIODE(SI)		1

Ref. No.	Part No.	Part Name & Description		Pcs/Set
		(VARIABLE RESISTORS)		
VR1	EVNDXAA03B23	VARIABLE RESISTOR		1
XC	EVNDXAA03B23	VARIABLE RESISTOR		1
		(SWITCHES)		
S1	PQSS2A27W	SWITCH		1
S2,3	PQSS3A17W	SWITCH		2
S601	EVQQJJ05Q	SWITCH		1
S602	EVQQJJ05Q	SWITCH		1
S603	EVQQJJ05Q	SWITCH		1
S604	EVQQJJ05Q	SWITCH		1
S605	EVQQJJ05Q	SWITCH		1
S606	EVQQJJ05Q	SWITCH		1
S607	EVQQJJ05Q	SWITCH		1
S608	EVQQJJ05Q	SWITCH		1
S609	EVQQJJ05Q	SWITCH		1
S610	EVQQJJ05Q	SWITCH		1
S611	EVQQJJ05Q	SWITCH		1
S612	EVQQJJ05Q	SWITCH		1
S613	EVQQJJ05Q	SWITCH		1
S614	EVQQJJ05Q	SWITCH		1
S615	EVQQJJ05Q	SWITCH		1
S616	EVQQJJ05Q	SWITCH		1
S617	EVQQJJ05Q	SWITCH		1
		(COILS & TRANSFORMERS)		
L1	PQLQZK1R8M	COIL	S	1
L3	PQLA7A20	COIL		1
L7	PQLQZM1R5K	COIL		1
L8	PQLQZM1R5K	COIL		1
L10	ELEPK330KA	COIL		1
L11	PQLQ7M1R5K	COIL		1
L601	ELEPK330KA	COIL		1
L602	ELEPK330KA	COIL		1
L603	PQLQZM100K	COIL		1
L604	PQLQZM100K	COIL		1
L605	PQLQZM100K	COIL		1
J107	PQLQZM2R2K	COIL		1
J112	PQLQZM100K	COIL		1
J119	PQLQZM2R2K	COIL		1
T4	PQLA7A7	COIL		1
T5	PQLI2B201	I.F. TRANSFORMER		1
T7	PQLA7A22	COIL		1
T8	PQLA7A9	COIL		1
T101	PQLT8F3A	TRANSFORMER	⚠	1
T102	PQLT8F3A	TRANSFORMER	⚠	1
		(JACK)		
JJ1	PQJJ2HA2Z	JACK, TEL LINE / DC IN		1
		(CRYSTALS)		
X1	PQVCJ10240C5	CRYSTAL OSCILLATOR		1
X2	PQVCL3276N9Z	CRYSTAL OSCILLATOR		1
X3	PQVCJ3501N9Z	CRYSTAL OSCILLATOR		1
X4	EF0EC7684T4P	CRYSTAL OSCILLATOR		1
		(CONNECTORS)		
CN1	PQJP08A97Z	CONNECTOR		1
CN2	PQJP08A98Z	CONNECTOR		1
CN3	PQJP11A46Z	CONNECTOR		1
CN101	PQJS08A36Z	CONNECTOR		1
CN102	PQJS08A36Z	CONNECTOR		1

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Ref. No.	Part No.	Part Name & Description	Pcs/Set
		(OTHERS)	
SA1	PQVDDSS301L	VARISTOR	⚠ 1
VC1	ECRLA030E53	TRIMMER CAPACITOR	1
PO1	PQRPAR390N	POSISTOR	⚠ 1
PC1	PQVIPC814K	PHOTO ELECTRIC TRANSDUCER	⚠ 1
PC2	PQVIPS2532-1	PHOTO ELECTRIC TRANSDUCER	⚠ 1
PC3	PQVIPC817CD	PHOTO ELECTRIC TRANSDUCER	⚠ 1
PC4	PQVIPC817CD	PHOTO ELECTRIC TRANSDUCER	⚠ 1
CF1	RVFSFE107MSR	CERAMIC FILTER S	1
CF2	PQVFCFW455E	CERAMIC FILTER S	1
DUP1	PQVFDX4649B1	DUPLEX	1
LCD	PQADDLC9921P	LCD	1
		(RESISTORS)	
R1	ERJ3GEYJ331	330	1
R2	ERJ3GEYJ103	10K	1
R3	ERJ3GEYJ820	82	1
R4	ERJ3GEYJ271	270	1
R5	ERJ3GEYJ103	10K	1
R6	ERJ3GEYJ331	330	1
R7	ERJ3GEYJ683	68K	1
R12	ERJ3GEYJ681	680	1
R13	ERJ3GEYJ273	27K	1
R14	ERJ3GEYJ153	15K	1
R15	ERJ3GEYJ473	47K	1
R16	ERJ3GEYJ273	27K	1
R17	ERJ3GEYJ222	2.2K	1
R18	ERJ3GEYJ103	10K	1
R19	ERJ3GEYJ222	2.2K	1
R20	ERJ3GEYJ104	100K	1
R21	ERJ3GEYJ682	6.8K	1
R22	ERJ3GEYJ104	100K	1
R23	ERJ3GEYJ683	68K	1
R24	ERJ3GEYJ562	5.6K	1
R25	ERJ3GEYJ223	22K	1
R26	ERJ3GEYJ391	390	1
R27	ERJ3GEYJ104	100K	1
R28	ERJ3GEYJ682	6.8K	1
R29	ERJ3GEYJ473	47K	1
R30	ERJ3GEYJ152	1.5K	1
R31	ERJ3GEYJ271	270	1
R32	ERJ3GEYJ222	2.2K	1
R33	ERJ3GEYJ474	470K	1
R34	ERJ3GEYJ820	82	1
R36	ERJ3GEYJ103	10K	1
R37	ERJ3GEYJ682	6.8K	1
R38	ERJ3GEYJ220	22	1
R39	ERJ3GEYJ104	100K	1
R40	ERJ3GEYJ101	100	1
R42	ERJ3GEYJ152	1.5K	1
R43	ERJ3GEYJ473	47K	1
R44	ERJ3GEYJ273	27K	1
R45	ERJ3GEYJ221	220	1
R46	ERJ3GEYJ683	68K	1
R47	ERJ3GEYJ473	47K	1
R48	ERJ3GEYJ000	0	1
R49	ERJ3GEYJ154	150K	1
R53	ERJ3GEYJ104	100K	1
R54	PQ4R10XJ824	820K	1
R55	ERJ3GEYJ333	33K	1
R56	ERJ3GEYJ823	82K	1
R57	ERJ3GEYJ332	3.3K	1
R58	ERJ3GEYJ104	100K	1
R59	ERJ3GEYJ224	220K	1
R60	ERJ3GEYJ224	220K	1
R61	ERJ3GEYJ100	10	1
R62	ERJ3GEYJ153	15K	1
R63	ERJ3GEYJ103	10K	1
R64	ERJ3GEYJ472	4.7K	1
R65	ERJ3GEYJ333	33K	1

Ref. No.	Part No.	Part Name & Description	Pcs/Set
R66	ERJ3GEYJ333	33K	1
R67	ERJ3GEYJ333	33K	1
R68	ERJ3GEYJ681	680	1
R69	ERJ3GEYJ123	12K	1
R70	ERJ3GEYJ563	56K	1
R72	ERJ3GEYJ822	8.2K	1
R73	ERJ3GEYJ224	220K	1
R74	ERJ3GEYJ472	4.7K	1
R75	ERJ3GEYJ822	8.2K	1
R76	ERJ3GEYJ221	220	1
R77	ERJ3GEYJ681	680	1
R78	ERJ3GEYJ472	4.7K	1
R80	ERJ3GEYJ000	0	1
R82	ERJ3GEYJ103	10K	1
R85	ERJ3GEYJ102	1K	1
R87	ERJ3GEYJ682	6.8K	1
R88	ERJ3GEYJ221	220	1
R89	ERJ3GEYJ153	15K	1
R90	ERJ3GEYJ334	330K	1
R91	ERJ3GEYJ223	22K	1
R92	ERJ3GEYJ122	1.2K	1
R94	ERJ3GEYJ223	22K	1
R95	ERJ3GEYJ823	82K	1
R100	ERJ3GEYJ333	33K	1
R101	PQ4R10XJ222	2.2K	1
R102	ERJ3GEYJ563	56K	1
R103	ERJ3GEYJ273	27K	1
R104	ERJ3GEYJ273	27K	1
R105	ERJ3GEYJ274	270K	1
R106	ERJ3GEYJ124	120K	1
R110	ERJ3GEYJ393	39K	1
R112	ERJ3GEYJ103	10K	1
R113	ERJ3GEYJ821	820	1
R115	ERJ3GEYJ273	27K	1
R116	ERJ3GEYJ104	100K	1
R117	ERJ3GEYJ225	2.2M	1
R118	ERJ3GEYJ275	2.7M	1
R119	ERJ3GEYJ104	100K	1
R120	ERJ3GEYJ472	4.7K	1
R122	ERJ3GEYJ103	10K	1
R123	ERJ3GEYJ332	3.3K	1
R125	ERJ3GEYJ183	18K	1
R126	ERJ3GEYJ104	100K	1
R127	ERJ3GEYJ104	100K	1
R128	ERJ3GEYJ121	120	1
R131	ERJ3GEYJ472	4.7K	1
R132	ERJ3GEYJ153	15K	1
R133	ERJ3GEYJ183	18K	1
R134	ERJ3GEYJ333	33K	1
R135	ERJ3GEYJ822	8.2K	1
R136	ERJ3GEYJ273	27K	1
R137	ERJ3GEYJ334	330K	1
R138	ERJ3GEYJ221	220	1
R139	ERJ3GEYJ823	82K	1
R140	ERJ3GEYJ152	1.5K	1
R141	ERJ3GEYJ334	330K	1
R142	ERJ3GEYJ822	8.2K	1
R143	ERJ3GEYJ820	82	1
R144	ERJ3GEYJ105	1M	1
R150	ERJ3GEYJ221	220	1
R151	ERJ3GEYJ222	2.2K	1
R152	ERJ3GEYJ333	33K	1
R153	ERJ3GEYJ103	10K	1
R154	ERJ3GEYJ104	100K	1
R155	ERJ3GEYJ104	100K	1
R156	ERJ3GEYJ102	1K	1
R157	ERJ3GEYJ104	100K	1
R158	ERJ3GEYJ104	100K	1
R159	ERJ3GEYJ106	10M	1
R160	ERJ3GEYJ564	560K	1
R162	ERJ3GEYJ683	68K	1

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Ref. No.	Part No.	Part Name & Description	Pcs/Set
R164	ERJ3GEYJ683	68K	1
R165	ERJ3GEYJ225	2.2M	1
R167	ERJ3GEYJ000	0	1
R182	ERJ3GEYJ223	22K	1
R187	ERJ3GEYJ000	0	1
R191	ERJ3GEYJ000	0	1
R200	ERJ3GEYJ472	4.7K	1
R203	ERJ3GEYJ104	100K	1
R204	ERJ3GEYJ105	1M	1
R205	ERJ3GEYJ474	470K	1
R206	ERJ3GEYJ473	47K	1
R210	ERJ3GEYJ104	100K	1
R211	ERJ3GEYJ104	100K	1
R212	ERJ3GEYJ473	47K	1
R213	ERJ3GEYJ102	1K	1
R214	ERJ3GEYJ103	10K	1
R215	ERDS2TJ221	220	1
R219	PQ4R10XJ473	47K	1
R220	ERDS2TJ470	47	1
R221	ERDS2TJ560	56	1
R222	ERJ3GEYJ103	10K	1
R223	ERJ3GEYJ103	10K	1
R229	ERJ3GEYJ105	1M	1
R230	ERJ3GEYJ104	100K	1
R231	ERJ3GEYJ104	100K	1
R232	ERJ3GEYJ104	100K	1
R233	ERJ3GEYJ104	100K	1
R234	ERJ3GEYJ104	100K	1
R235	ERJ3GEYJ223	22K	1
R236	ERJ3GEYJ393	39K	1
R238	ERJ3GEYJ000	0	1
R250	ERJ3GEYJ272	2.7K	1
R251	ERJ3GEYJ000	0	1
R302	ERDS2TJ103	10K	1
R303	ERDS2TJ103	10K	1
R400	ERJ3GEYJ104	100K	1
R401	ERDS1TJ100	10 S	1
R402	ERJ3GEYJ153	15K	1
R403	ERJ3GEYJ822	8.2K	1
R404	PQ4R10XJ2R4	2.4	1
R405	ERJ3GEYJ472	4.7K	1
R406	ERJ3GEYJ104	100K	1
R407	ERJ3GEYJ104	100K	1
R408	ERJ3GEYJ104	100K	1
R409	ERJ3GEYJ104	100K	1
R410	ERJ3GEYJ683	68K	1
R411	ERJ3GEYJ472	4.7K	1
R412	ERJ3GEYJ472	4.7K	1
R413	ERJ3GEYJ563	56K	1
R414	ERJ3GEYJ681	680	1
R415	ERJ3GEYJ335	3.3M	1
R416	PQ4R10XJ332	3.3K	1
R417	ERJ3GEYJ332	3.3K	1
R418	ERJ3GEYJ824	820K	1
R420	ERJ3GEYJ331	330	1
R421	ERJ3GEYJ104	100K	1
R422	ERJ3GEYJ102	1K	1
R423	ERDS2TJ473	47K ⚠	1
R424	ERJ3GEYJ103	10K	1
R425	ERJ3GEYJ103	10K	1
R426	ERJ3GEYJ103	10K	1
R428	ERJ3GEYJ474	470K	1
R431	ERJ3GEYJ334	330K	1
R432	ERJ3GEYJ124	120K	1
R433	PQ4R10XJ683	68K	1
R434	ERJ3GEYJ333	33K	1
R435	ERJ3GEYJ472	4.7K	1
R436	ERJ3GEYJ272	2.7K	1
R437	ERJ3GEYJ222	2.2K	1
R438	ERJ3GEYJ681	680	1
R439	ERJ3GEYJ102	1K	1

Ref. No.	Part No.	Part Name & Description	Pcs/Set
R440	ERJ3GEYJ000	0	1
R441	ERJ3GEYJ103	10K	1
R451	ERJ3GEYJ103	10K	1
R452	ERJ3GEYJ103	10K	1
R453	ERJ3GEYJ103	10K	1
R454	ERJ3GEYJ104	100K	1
R455	ERJ3GEYJ103	10K	1
R456	ERJ3GEYJ473	47K	1
R461	ERJ3GEYJ224	220K	1
R462	ERJ3GEYJ104	100K	1
R470	ERJ3GEYJ000	0	1
R490	ERJ3GEYJ333	33K	1
R491	ERJ3GEYJ682	6.8K	1
R492	ERJ3GEYJ563	56K	1
R493	ERJ3GEYJ103	10K	1
R494	ERJ3GEYJ682	6.8K	1
R495	ERJ3GEYJ683	68K	1
R496	ERJ3GEYJ332	3.3K	1
R497	ERJ3GEYJ472	4.7K	1
R498	ERJ3GEYJ472	4.7K	1
R499	ERJ3GEYJ223	22K	1
R500	ERJ3GEYJ472	4.7K	1
R503	ERDS2TJ560	56 ⚠	1
R505	PQ4R10XJ682	6.8K ⚠	1
R506	PQ4R10XJ682	6.8K ⚠	1
R507	PQ4R10XJ153	15K ⚠	1
R508	PQ4R10XJ473	47K ⚠	1
R509	ERDS2TJ472	4.7K ⚠	1
R510	ERDS2TJ104	100K ⚠	1
R511	PQ4R10XJ561	560 ⚠	1
R512	PQ4R10XJ221	220 ⚠	1
R601	ERJ3GEYJ103	10K	1
R604	ERJ3GEYJ102	1K	1
R605	ERJ3GEYJ102	1K	1
R606	ERJ3GEYJ271	270	1
R607	ERJ3GEYJ102	1K	1
R609	ERJ3GEYJ473	47K	1
R611	ERJ3GEYJ473	47K	1
R612	ERJ3GEYJ473	47K	1
R614	ERJ3GEYJ473	47K	1
R615	ERJ3GEYJ473	47K	1
R616	ERJ3GEYJ103	10K	1
R617	ERJ3GEYJ473	47K	1
R618	ERJ3GEYJ473	47K	1
R621	ERJ3GEYJ104	100K	1
R622	ERJ3GEYJ104	100K	1
R623	ERJ3GEYJ104	100K	1
R624	ERJ3GEYJ104	100K	1
R629	ERJ3GEYJ681	680	1
R662	ERJ3GEYJ472	4.7K	1
R663	ERJ3GEYJ123	12K	1
R664	ERJ3GEYJ152	1.5K	1
R702	ERJ3GEYJ562	5.6K	1
R703	ERJ3GEYJ333	33K	1
J82	ERDS2TJ153	15K	1
J133	ERDS2TJ472	4.7K	1
J134	ERDS2TJ472	4.7K	1
J135	ERDS2TJ472	4.7K	1
J250	ERJ3GEYJ223	22K	1
J280	ERJ3GEYJ472	4.7K	1
R449	ERJ3GEYJ103	10K	1
		(CAPACITORS)	
C1	ECUV1H680JCV	68P	1
C2	ECUV1H103KBV	0.01 S	1
C3	ECUV1H030CCV	3P	1
C4	ECUV1H100DCV	10P	1
C5	ECUV1H150JCV	15P	1
C6	ECEA1EKA470	47 S	1

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Ref. No.	Part No.	Part Name & Description		Pcs/Set
C7	ECUV1EKA470	47	S	1
C8	PQCUV1H103KB	0.01	S	1
C9	ECUV1H103KBV	0.01	S	1
C10	ECUV1H103KBV	0.01	S	1
C11	ECUV1E104ZFV	0.1		1
C12	ECEA1EKA470	47	S	1
C15	ECEA1HKS3R3	3.3	S	1
C16	PQCUV1E473MD	0.047		1
C17	PQCUV1H223KB	0.022	S	1
C18	ECUV1H103KBV	0.01	S	1
C19	PQCUV1H683MD	0.068	S	1
C20	ECUV1H470JCV	47P		1
C21	ECUV1E104ZFV	0.1		1
C22	PQCUV1H102J	0.001	S	1
C23	PQCUV1H102J	0.001	S	1
C24	PQCUV1C224ZF	0.22		1
C25	PQCUV1H683MD	0.068	S	1
C26	ECUV1H223KBV	0.022		1
C27	ECUV1E104ZFV	0.1		1
C28	ECEA1HKS010	1		1
C29	PQCUV1H683MD	0.068	S	1
C31	ECEA1CKS100	10	S	1
C31	ECEA1HKS010	1		1
C32	ECUV1E104ZFV	0.1		1
C33	ECUV1H103KBV	0.01	S	1
C34	PQCUV1E473MD	0.047		1
C35	ECUV1H103KBV	0.01	S	1
C36	ECUV1H103KBV	0.01	S	1
C37	ECUV1H080DCV	8P		1
C38	ECUV1H390JCV	39P		1
C39	ECUV1H470JCV	47P		1
C40	ECUV1H680JCV	68P		1
C41	ECEA1HKS010	1	S	1
C42	ECUV1H330JCV	33P		1
C43	ECUV1H330JCV	33P		1
C44	ECUV1H180JCV	18P		1
C45	ECUV1H030CCV	3P		1
C46	ECUV1H681JCV	680P		1
C47	ERJ3GEYJ000	0		1
C48	ECUV1E104ZFV	0.1		1
C52	ECUV1H103KBV	0.01	S	1
C53	ECUV1H681JCV	680P		1
C54	ECUV1E104ZFV	0.1		1
C55	ECEA1CKS100	10	S	1
C56	ECEA1CKS220	22	S	1
C57	PQCUV1C224ZF	0.22		1
C58	ECUV1E104ZFV	0.1		1
C59	ECEA1EKA470	47	S	1
C60	ECEA1CKS100	10	S	1
C62	ECUV1H271JCV	270P		1
C63	ECUV1H103KBV	0.01	S	1
C64	ECUV1H221JCV	220P		1
C65	ECUV1E104ZFV	0.1		1
C66	PQCUV1H223KB	0.022	S	1
C67	ECEA1EKA470	47	S	1
C68	ECUV1H682KBV	0.0068		1
C69	ECUV1E104ZFV	0.1		1
C70	PQCUV1H223KB	0.022	S	1
C71	ECEA1CKS100	10	S	1
C73	PQCUV1H153KB	0.015	S	1
C74	ECUV1H101JCV	100P		1
C75	ECEA1CKS100	10	S	1
C76	ECUV1H152KBV	0.0015		1
C78	ERJ3GEYJ000	0		1
C81	PQCUV1H123MD	0.012		1
C85	ECUV1E104ZFV	0.1		1
C86	ECEA1HKS3R3	3.3	S	1
C87	ECEA1HKS010	1		1
C88	PQCUV1E473MD	0.047		1
C89	ECUV1H332KBV	0.0033		1
C90	ECUV1H152KBV	0.0015		1

Ref. No.	Part No.	Part Name & Description		Pcs/Set
C91	ECEA1CKS100	10		1
C92	PQCUV1H682KB	0.0068		1
C93	ECEA1EKA470	47	S	1
C94	ECEA1HKSR47	0.47		1
C95	ECEA1CK101	100	S	1
C96	ECUV1H182KBV	0.0018		1
C97	PQCUV1H153KB	0.015	S	1
C98	ECUV1H562KBV	0.0056		1
C99	ECUV1H471JCV	470P		1
C100	ECUV1H103KBV	0.01	S	1
C101	ECEA1AKS330	33	S	1
C102	ECUV1E104ZFV	0.1		1
C103	ERJ3GEYJ000	0		1
C105	ECEA0JKA331	330		1
C106	ECUV1H103KBV	0.01	S	1
C107	ECUV1E104ZFV	0.1		1
C108	ECUV1E104ZFV	0.1		1
C109	ECUV1E104ZFV	0.1		1
C111	PQCUV1E104MD	0.1		1
C112	ECUV1H121JCV	120P		1
C113	PQCUV1H103KB	0.01	S	1
C115	PQCUV1E104MD	0.1	S	1
C116	ECEA1HKS010	1	S	1
C117	ECEA1HKS010	1	S	1
C118	ECEA1EK470	47	S	1
C119	ECEA1EKA470	47	S	1
C120	PQCUV1H683MD	0.068	S	1
C121	ECEA1HKS010	1	S	1
C122	ECUV1E104ZFV	0.1		1
C123	ECEA1HKS010	1		1
C124	ECEA1CK101	100	S	1
C126	ECEA1CKS100	10	S	1
C127	ECEA1EKA470	47	S	1
C128	ECEA1EK470	47	S	1
C129	ECEA1AKA221	220		1
C130	ECEA1AU102	1000		1
C131	ECEA1EKA470	47	S	1
C133	ECUV1H472KBV	0.0047		1
C135	PQCUV1H103KB	0.01	S	1
C137	ECUV1E104ZFV	0.1		1
C138	ECUV1H333KDV	0.033	S	1
C139	PQCUV1H183KB	0.018	S	1
C140	ECUV1E104ZFV	0.1		1
C141	PQCUV1H102J	0.001	S	1
C146	ECEA1CKS100	10	S	1
C147	ECUV1H103KBV	0.01	S	1
C148	ECUV1E104ZFV	0.1		1
C149	ECUV1E104ZFV	0.1		1
C151	ECUV1E104ZFV	0.1		1
C154	ECUV1E104ZFV	0.1		1
C155	ECUV1E104ZFV	0.1		1
C166	ECUV1E104ZFV	0.1		1
C167	PQCUV1H102J	0.001	S	1
C168	ECUV1H103KBV	0.01	S	1
C169	ECEA1AKS221	220		1
C173	EECW5R5D473	0.047	S	1
C174	ECUV1C224ZFV	0.22		1
C175	ECEA0JK221	220	S	1
C176	ECEA1CKS220	22	S	1
C177	ECUV1H103KBV	0.01	S	1
C178	ECEA1CU221	220		1
C179	ECEA1CU221	220		1
C181	ECUV1H103KBV	0.01	S	1
C182	ECUV1H103KBV	0.01	S	1
C187	ECUV1E104ZFV	0.1		1
C190	ECUV1H220JCV	22P		1
C191	ECUV1H220JCV	22P		1
C193	ECUV1H103KBV	0.01	S	1
C201	PQCUV1E104MD	0.1	⚠	1
C202	PQCUV1H223KB	0.022	⚠S	1
C203	PQCUV1H103KB	0.01	⚠S	1

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Ref. No.	Part No.	Part Name & Description	Pcs/Set
C204	ECEA1HU2R2	2.2 ⚠	1
C205	PQCUV1H103KB	0.01 ⚠S	1
C206	ECEA1CU221	220 ⚠	1
C207	ECKD2H681KB	680P ⚠S	1
C208	ECKD2H681KB	680P ⚠S	1
C209	ECQE2224KF	0.22 ⚠	1
C400	ECUV1E104ZFV	0.1	1
C401	ECEA1AKS221	220	1
C402	ECEA1AKS221	220	1
C403	ECUV1H103KBV	0.01 S	1
C404	ECUV1E104ZFV	0.1	1
C405	PQCUV1H102J	0.001 S	1
C406	ECUV1H152KBV	0.0015	1
C407	PQCUV1E104MD	0.1 S	1
C408	ECUV1E104ZFV	0.1	1
C409	ECUV1H221JCV	220P	1
C410	ECEA1HKS220	22 S	1
C411	PQCUV1H223KB	0.022 S	1
C412	ECUV1H222KBV	0.0022	1
C413	ECUV1H103KBV	0.01 S	1
C414	ECUV1E104ZFV	0.1	1
C417	ECUV1H180JCV	18P	1
C418	ECUV1H180JCV	18P	1
C451	ECEA1HKS010	1 S	1
C452	ECUV1E104ZFV	0.1	1
C453	ECUV1H153KBV	0.015	1
C454	PQCUV1H105JC	1 S	1
C455	ECUV1E104ZFV	0.1	1
C456	ECUV1H220JCV	22P	1
C460	ECUV1H222KBV	0.0022	1
C490	ECUV1H103KBV	0.01 S	1
C491	ECUV1H223KBV	0.022 S	1
C492	ECUV1E104ZFV	0.1	1
C513	ECEA0JKS101	100	1
C601	ECEA0JKS220	22	1
C604	PQCUV1H103KB	0.01 S	1
C605	PQCUV1H103KB	0.01 S	1
C606	ECUV1E104ZFV	0.1	1
C607	ECUV1E104ZFV	0.1	1
C701	ECUV1E104ZFV	0.1	1
C702	ECEA1AKS330	33 S	1
C702	ECEA1EKS330	33	1
C900	PQCUV1H682KB	0.0068 S	1

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REPLACEMENT PARTS LIST

KX-T4360R

1. RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

2. Important safety notice

Components identified by the ⚠ mark special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

3. The S mark indicates service standard parts and may differ from production parts.

4. RESISTORS & CAPACITORS

Unless otherwise specified

All resistors are in ohms (Ω) K=1000Ω, M=1000KΩ

All capacitors are in MICRO FARADS (μF) P=μμF

*Type &Wattage of Resistor

Type

ERC:Solid	ERX:Metal Film	PQ4R:Carbon
ERD:Carbon	ERG:Metal Oxide	ERS:Fusible Resistor
PQRD:Carbon	ER0:Metal Film	ERF:Cement Resistor

Wattage

10,16:1/8W	14,25:1/4W	12:1/2W	1:1W	2:2W	3:3W

*Type & Voltage of Capacitor

Type

ECFD:Semi-Conductor	ECCD,ECKD,ECBT,PQCBC : Ceramic
ECQS:Styrol	ECQE,ECQV,ECQG : Polyester
PQCUV:Chip	ECEA,ECSZ : Electrolytic
ECQMS:Mica	ECQP : Polypropylene

Voltage

ECQ Type	ECQG ECQV Type	ECSZ Type	Others	
1H: 50V	05: 50V	0F:3.15V	0J :6.3V	1V :35V
2A:100V	1:100V	1A:10V	1A :10V	50,1H:50V
2E:250V	2:200V	1V:35V	1C :16V	1J :63V
2H.500V		0J:6.3V	1E,25:25V	2A :100V

Ref. No.	Part No.	Part Name & Description		Pcs/Set
		CABINET & ELECTRICAL PARTS		
100	KX-A36A	RECHARGEABLE BATTERY	S	1
101	PQAX3P16Z	SPEAKER		1
102	PQSA10013Z	ANTENNA		1
103	PQBC10082Z1	BUTTON	S	1
104	PQBC10084Z1	BUTTON	S	1
105	PQBC10091Z1	BUTTON	S	1
106	PQBD10022Z1	KNOB	S	1
107	PQBX10191Z1	BUTTON	S	1
108	PQGD10115Z	TEL CARD		1
109	PQGP10049U	PANEL		1
110	PQGV10021Z	TRANSPARENT PLATE		1
111	PQKF10096W1	CABINET COVER		1
112	PQKK10021Z1	BATTERY COVER	S	1
113	PQKM10145Z1	CABINET BODY		1
114	PQYT10005Z1	KNOB		1
115	PJHE5065Z	SCREW		2
116	PQHX10309Y	INSULATOR		1
117	XTW26+10E	SCREW	S	4
118	XTW26+12F	SCREW		1
119	PQEFBC12GP03	BUZZER	S	1
120	PQJM124X	MICROPHONE		1
121	PQJT10039Z	BATTERY TERMINAL		3
122	PAMC10008Z	SHIELD PLATE		1
123	XWC4BFN	WASHER		1

Ref. No.	Part No.	Part Name & Description		Pcs/Set
		PRINTED CIRCUIT BOARD PARTS		
PCB100	PQWPT4360RM	P.C.BOARD ASS'Y (RTL)		1
		(ICS)		
IC1	AN6143FA	IC		1
IC2	PQVIM64026FP	IC		1
IC101	PQVI89123210	IC		1
IC102	PQVISC78184D	IC		1
		(TRANSISTORS)		
Q1	2SK543	TRANSISTOR(SI)		1
Q2	2SC2295	TRANSISTOR(SI) (or 2SC2413KPT146)	S	1
Q3	2SC2412K	TRANSISTOR(SI)		1
Q4	2SC2295	TRANSISTOR(SI) (or 2SC2413KPT146)	S	1
Q101	XN1116	TRANSISTOR(SI)		1
Q102	2SA1036KQ146	TRANSISTOR(SI)	S	1
Q103	2SD601R	TRANSISTOR(SI) (or 2SC2712GRTE85)		1
Q104	2SD601R	TRANSISTOR(SI) (or 2SC2712GRTE85)		1
Q105	2SD601R	TRANSISTOR(SI) (or 2SC2712GRTE85)		1
Q106	2SD601R	TRANSISTOR(SI) (or 2SC2712GRTE85)		1
Q107	2SB709A	TRANSISTOR(SI) (or 2SA1162 or 2SC2413K)	S	1
Q108	2SD601R	TRANSISTOR(SI) (or 2SC2712GRTE85)		1
Q109	2SD601R	TRANSISTOR(SI) (or 2SC2712GRTE85)		1
Q110	2SB709A	TRANSISTOR(SI) (or 2SA1162 or 2SC2413K)	S	1
Q111	UN5213	TRANSISTOR(SI)	S	1
		(DIODES)		
D1	MA840BTAKU	DIODE(SI)		1
D3	PQVD1SV145	DIODE(SI)		1
D102	MA700A	DIODE(SI)	S	1
D103	PQVDSLC22MG2	LED		1
D104	PQVDSLR33MC3	LED		1
D105	PQVDSLR33MC3	LED		1
D106	PQVDSLC22VR2	LED		1
D107	1SS120	DIODE(SI)		1
D108	1SS120	DIODE(SI)		1
D109	1SS120	DIODE(SI)		1
D110	1SS120	DIODE(SI)		1
D111	PQVDSLC22VR1	DIODE(SI)		1
D113	MA723	DIODE(SI)		1
D114	1SS120	DIODE(SI)		1
D115	1SS120	DIODE(SI)		1
D116	RLS71	DIODE(SI)		1
D117	RLS71	DIODE(SI)		1
DB	1SS120	DIODE(SI)		1
DC	RLS71	DIODE(SI)		1
DF	1SS120	DIODE(SI)		1
D118	RLS71	DIODE(SI)		1
		(CONNECTORS)		
CN1	PQJP2D59Z	CONNECTOR		1

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Ref. No.	Part No.	Part Name & Description		Pcs/Set
		(SWITCHES)		
S1	ESD11H120	SWITCH		1
S2	PQSH1A44Z	SWITCH		1
S101	PQSH1A57Z	SWITCH		1
S102	PQSH1A57Z	SWITCH		1
S103	EVQQJJ05Q	SWITCH		1
S104	EVQQJJ05Q	SWITCH		1
S105	EVQQJJ05Q	SWITCH		1
S106	EVQQJJ05Q	SWITCH		1
S107	EVQQJJ05Q	SWITCH		1
S108	EVQQJJ05Q	SWITCH		1
S109	EVQQJJ05Q	SWITCH		1
S110	EVQQJJ05Q	SWITCH		1
S111	EVQQJJ05Q	SWITCH		1
S112	EVQQJJ05Q	SWITCH		1
S113	EVQQJJ05Q	SWITCH		1
S114	EVQQJJ05Q	SWITCH		1
S116	EVQ21404M	SWITCH		1
S117	EVQ21404M	SWITCH		1
S118	EVQ21404M	SWITCH		1
S119	EVQ21404M	SWITCH		1
S120	EVQ21404M	SWITCH		1
S121	EVQ21404M	SWITCH		1
S122	EVQ21404M	SWITCH		1
S123	EVQ21404M	SWITCH		1
		(CRYSTALS)		
X1	PQVCJ10240C5	CRYSTAL OSCILLATOR		1
X2	PQVCJ3581N9Z	CRYSTAL OSCILLATOR		1
X101	PQVCJ3992N9Z	CRYSTAL OSCILLATOR		1
X102	PQVCL3276N9Z	CRYSTAL OSCILLATOR		1
		(COILS)		
L1	PQLQZM100K	COIL		1
L2	PQLQZM1R5K	COIL		1
L101	PQLQZM1R0K	COIL		1
L102	PQLQZM1R0K	COIL		1
L103	PQLQZM2R2K	COIL		1
DUP1	ELB4Z003S	COIL	S	1
T1	PQLA7A9	COIL		1
T2	PQLA7A11	COIL		1
T3	PQLI2B201	I.F. TRANSFORMER		1
T4	PQLA7A22	COIL		1
T5	PQLA7A7	COIL		1
		(VARIABLE RESISTORS)		
VR1	EVNDXAA03B35	VARIABLE RESISTOR		1
VR3	EVNDXAA03B35	VARIABLE RESISTOR		1
		(WIRES)		
W1	WBX19SH-3AA	LEAD WIRE		1
W101	WBX15SH-4AA	LEAD WIRE		1
		(CERAMIC FILTERS)		
CF1	RVFSFE107MSR	CERAMIC FILTER	S	1
CF2	PQVFCFW455E	CERAMIC FILTER	S	1
		(OTHERS)		
TC1	ECRLA030E53	TRIMMER CAPACITOR		1
		(RESISTORS)		
R2	ERJ3GEYJ220	22		1
R3	ERJ3GEYJ273	27K		1

Ref. No.	Part No.	Value	Pcs/Set
R4	ERJ3GEYJ184	180K	1
R5	ERJ3GEYJ562	5.6K	1
R6	ERJ3GEYJ0R00	0	1
R7	PQ4R18XJ000	0	1
R8	ERJ3GEYJ123	12K	1
R9	ECUV1H682KBV	0.0068	1
R11	ERJ3GEYJ273	27K	1
R12	ERJ3GEYJ394	390K	1
R13	ERJ3GEYJ334	330K	1
R14	ERJ3GEYJ274	270K	1
R15	ERJ3GEYJ224	220K	1
R16	ERJ3GEYJ224	220K	1
R17	ERJ3GEYJ273	27K	1
R18	ERJ3GEYJ473	47K	1
R19	ERJ3GEYJ473	47K	1
R21	ERJ3GEYJ152	1.5K	1
R22	ERJ3GEYJ104	100K	1
R25	PQ4R10XJ152	1.5K	1
R26	PQ4R10XJ222	2.2K	1
R27	ERJ3GEYJ223	22K	1
R29	ERJ3GEYJ331	330	1
R30	ERJ3GEYJ182	1.8K	1
R31	ERJ3GEYJ220	22	1
R32	ERJ3GEYJ154	150K	1
R34	ERJ3GEYJ470	47	1
R35	ERJ3GEYJ393	39K	1
R37	ERJ3GEYJ470	47	1
R38	ERJ3GEYJ220	22	1
R39	ERJ3GEYJ223	22K	1
R40	ERJ3GEYJ102	1K	1
R41	ERJ3GEYJ223	22K	1
R42	ERJ3GEYJ823	82K	1
R43	ERJ3GEYJ104	100K	1
R44	ERJ3GEYJ333	33K	1
R45	ERJ3GEYJ562	5.6K	1
R46	ERJ3GEYJ104	100K	1
R47	ERJ3GEYJ224	220K	1
R48	ERJ3GEYJ224	220K	1
R49	ERJ3GEYJ103	10K	1
R50	ERJ3GEYJ103	10K	1
R52	ERJ3GEYJ393	39K	1
R101	ERDS2TJ682	6.8K	1
R102	PQ4R10XJ683	68K	1
R103	ERJ3GEYJ681	680	1
R104	ERJ3GEYJ681	680	1
R105	ERJ3GEYJ681	680	1
R106	ERJ3GEYJ681	680	1
R107	ERJ3GEYJ681	680	1
R108	ERDS2TJ473	47K	1
R109	ERDS2TJ103	10K	1
R116	ERJ3GEYJ122	1.2K	1
R117	ERJ3GEYJ562	5.6K	1
R118	ERJ3GEYJ392	3.9K	1
R119	ERJ3GEYJ680	68	1
R120	ERJ3GEYJ221	220	1
R121	ERJ3GEYJ104	100K	1
R125	ERJ3GEYJ104	100K	1
R126	ERJ3GEYJ472	4.7K	1
R127	ERJ3GEYJ103	10K	1
R128	ERDS2TJ223	22K	1
R129	ERJ3GEYJ223	22K	1
R130	ERJ3GEYJ122	1.2K	1
R131	ERJ3GEYJ332	3.3K	1
R136	ERJ3GEYJ120	12	1
R137	PQ4R10XJ825	8.2M	1
R138	PQ4R10XJ331	330	1
R139	ERDS2TJ332	3.3K	1
R140	ERJ3GEYJ102	1K	1
R141	ERJ3GEYJ472	4.7K	1
R142	ERJ3GEYJ472	4.7K	1
R143	ERJ3GEYJ472	4.7K	1

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Ref. No.	Part No.	Value		Pcs/Set
		(CAPACITORS)		
C2	ECUV1H103KBV	0.01	S	1
C3	PQCUV1E104MD	0.1	S	1
C4	ECUV1E104ZFV	0.1		1
C5	ECUV1E104ZFV	0.1		1
C6	PQCUV1H473MD	0.047		1
C7	PQCUV1C683MD	0.068		1
C8	ECUV1E104ZFV	0.1		1
C9	PQCUV1C683MD	0.068		1
C10	ECUV1H104MD	0.1	S	1
C11	ECUV1E105ZF	1	S	1
C12	ECEA1CKS100	10		1
C13	ECEA1VKS4R7	4.7		1
C14	ECEA1CKS100	10		1
C15	ECUV1E104ZFV	0.1		1
C16	ECUV1E104ZFV	0.1		1
C17	ECUV1H472KBV	0.0047	S	1
C17	ECUV1H682KBV	0.0068		1
C18	PQCUV1H152KB	0.0015	S	1
C19	ECEA1CKS100	10		1
C20	ECEA1CKS100	10		1
C22	ECUV1H103KBV	0.01	S	1
C23	ECEA1CKS100	10		1
C24	PQCUV1H472KB	0.0047	S	1
C25	ECEA0JKS470	47	S	1
C26	PQCUV1H050DC	5P		1
C27	ECUV1E104ZFV	0.1		1
C28	ECEA1CKS100	10		1
C29	ECEA1CKS100	10		1
C30	ECEA1HKS010	1		1
C31	PQCUV1H472KB	0.0047	S	1
C32	ECUV1H390JCV	39P		1
C33	ECUV1E104ZFV	0.1		1
C34	ECUV1H104MD	0.1	S	1
C36	ECUV1H103KBV	0.01	S	1
C39	PQCUV1H220JC	22P		1
C40	ECUV1H103KBV	0.01	S	1
C41	PQCUV1H103KB	0.01	S	1
C42	ECUV1H220JCV	22P		1
C43	ECUV1H103KBV	0.01	S	1
C44	ECUV1E104ZFV	0.1		1
C45	ECUV1C224ZFV	0.22		1
C46	ECUV1H220JCV	22P		1
C47	ECUV1H103KBV	0.01	S	1
C48	ECUV1H470JCV	47P		1
C49	ECUV1H680JCV	68P		1
C50	ECUV1H330JCV	33P	S	1
C51	ECUV1H150JCV	15P		1
C52	PQCUV1E104MD	0.1	S	1
C53	PQCUV1H180JC	18P	S	1
C54	PQCUV1H030CC	3P	S	1
C55	PQCUV1H102J	0.001	S	1
C56	PQCUV1E473MD	0.047		1
C57	ECUV1H100DCV	10P		1
C58	ECUV1E104ZFV	0.1		1
C59	ECUV1E104ZFV	0.1		1
C61	PQCUV1E104MD	0.1	S	1
C62	PQCUV1H121JC	120P		1
C63	PQCUV1E104MD	0.1	S	1
C64	ECUV1E104ZFV	0.1		1
C65	ECEA0JKS470	47P		1
C66	ECUV1H223MD	0.022		1
C67	ECEA0JKS470	47P		1
C68	ECUV1E104ZFV	0.1		1
C70	ECUV1E104ZFV	0.1		1
C101	PQCUV1C224ZF	0.22	S	1
C102	ECUV1H180JCV	18P		1
C103	ECUV1H180JCV	18P		1
C104	ECUV1H270JCV	27P		1
C105	ECUV1H270JCV	27P		1
C106	ECUV1H103KBV	0.01	S	1
C107	ECEA0GKS221	220		1
C108	ECUV1H103KBV	0.01	S	1
C109	ECUV1H103KBV	0.01	S	1
C110	ECEA1CKS100	10		1
C120	PQCUV1H103KB	0.01	S	1
C121	ECUV1H104ZFV	0.1	S	1

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Ref. No.	Part No.	Value	Pcs/Set
		ACCESSORIES	
A1	KX-A11-5	AC ADAPTOR ⚠	1
A2	PQJA59V	TEL CORD	1
A3	RT-N30-JT1P	CASSETTE TAPE	1
A4	PQKL28Z1	STAND	1
A5	PQQW10476Z	DIAL CARD	1
A6	PQQW11164Z	QUICK REFERENCE GUIDE (ENGLISH)	1
A7	PQQW11165Z	QUICK REFERENCE GUIDE (SPANISH)	1
A8	PQQX11237Z	INSTRUCTION BOOK	1
		PACKING MATERIALS	
P1	PQPP94Y	PROTECTION COVER	1
P2	PQPP170Z	PROTECTION COVER	1
P3	PQPD10254Z	CUSION	1
P4	PQPD10340Z	CUSION	1
P5	PQPN10341Z	ACCESSORY BOX	1
P6	PQPK10885Z	GIFT BOX	1
		FIXTURE AND TOOLS	
Z1	PQZZ8K11Z	EXTENTION CORD	2
Z2	PQZZLCT2401A	TEST TAPE	1
Z3	PQJS11K3Z	EXTENSION CORD	1

Note:
1. PQZZ8K11Z and PQJS11K3Z is useful for servicing.
   (They make servicing easy.)
2. PQZZLCT2401A is necessities for servicing.